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## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6:

(11) International Publication Number:

WO 99/02497

C07D 213/00

A2

(43) International Publication Date:

21 January 1999 (21.01.99)

(21) International Application Number:

PCT/EP98/04266

(22) International Filing Date:

9 July 1998 (09.07.98)

(30) Priority Data:

08/891,691 08/890,689 11 July 1997 (11.07.97) 11 July 1997 (11.07.97)

US

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(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

#### Published

Without international search report and to be republished upon receipt of that report.

(54) Title: PYRIDINE DERIVATIVES

(57) Abstract

Compounds of the formula (I), wherein X and R1 to R5 are as defined in the description, are useful for treating disorders mediated full or in part by mGluR5.

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#### Pyridine derivatives

The invention relates to the use of 2-arylalkenyl-, 2-heteroarylalkenyl-, 2-arylalkynyl-, 2-heteroarylalkynyl-, 2-arylazo- and 2-heteroarylazo-pyridines for modulating the activity of mGluRs and for treating mGluR5 mediated diseases, to pharmaceutical compositions for use in such therapy, as well as to novel 2-arylalkenyl-, 2-heteroarylalkenyl-, 2-arylalkynyl-, 2-heteroarylalkynyl-, 2-arylazo- and 2-heteroarylazo-pyridines.

It has been found that 2-arylalkenyl-, 2-heteroarylalkenyl-, 2-arylalkynyl-, 2-heteroarylalkynyl-, 2-arylazo- and 2-heteroarylazo-pyridines including the pharmaceutically acceptable salts (hereinafter agents of the invention) are useful as modulators of mGluRs. Modulation of mGluRs can be demonstrated in a variety of ways, inter alia, in binding assays and functional assays such as second messenger assays or measurement of changes in intracellular calcium concentrations. For example, measurement of the inositol phosphate turnover in recombinant cell lines expressing hmGluR5a showed, for selected agents of the invention, IC<sub>50</sub> values of about 1nM to about 50μM.

In particular, the agents of the invention have valuable pharmacological properties. For example, they exhibit a marked and selective modulating, especially antagonistic, action at human metabotropic glutamate receptors (mGluRs). This can be determined in vitro for example at recombinant human metabotropic glutamate receptors, especially PLC-coupled subtypes thereof such as mGluR5, using different procedures like, for example, measurement of the inhibition of the agonist induced elevation of intracellular Ca<sup>2+</sup> concentration in accordance with L. P. Daggett et al. Neuropharm. Vol. 34, pages 871-886 (1995), P. J. Flor et al., J. Neurochem. Vol. 67, pages 58-63 (1996) or by determination to what extent the agonist induced elevation of the inositol phosphate turnover is inhibited as described by T. Knoepfel et al. Eur. J. Pharmacol. Vol. 288, pages 389-392 (1994), L. P. Daggett et al., Neuropharm. Vol. 67, pages 58-63 (1996) references cited therein. Isolation and expression of human mGluR subtypes are described in US-Patent No. 5,521,297. Selected agents of the invention showed IC<sub>50</sub> values for the inhibition of the quisqualate-induced inositol phosphate turnover, measured in recombinant cells expressing hmGluR5a of about 1nM to about 50μM.

Accordingly the invention relates to agents of the invention for use in the treatment of disorders associated with irregularities of the glutamatergic signal transmission, and of nervous system disorders mediated full or in part by mGluR5.

Disorders associated with irregularities of the glutamatergic signal transmission are for example epilepsy, cerebral ischemias, especially acute ischemias, ischemic diseases of the eye, muscle spasms such as local or general spasticity and, in particular, convulsions or pain.

Nervous system disorders mediated full or in part by mGluR5 are for example acute, traumatic and chronic degenerative processes of the nervous system, such as Parkinson's disease, senile dementia, Alzheimer's disease, Huntington's chorea, amyotrophic lateral sclerosis and multiple sclerosis, psychiatric diseases such as schizophrenia and anxiety, depression and pain.

The invention also relates to the use of agents of the invention, in the treatment of disorders associated with irregularities of the glutamatergic signal transmission, and of nervous system disorders mediated full or in part by Group I mGiuRs.

Furthermore the invention relates to the use of agents of the invention for the manufacture of a pharmaceutical composition designed for the treatment of disorders associated with irregularities of the glutamatergic signal transmission, and of nervous system disorders mediated full or in part by Group I mGluRs.

In a further aspect the invention relates to a method of treating disorders mediated full or in part by group I mGluRs (preferentially mGluRs) which method comprises administering to a warm-blooded organism in need of such treatment a therapeutically effective amount of an agent of the invention.

In still a further aspect, the invention relates to novel 2-arylalkenyl-, 2-heteroarylalkenyl-, 2-arylalkynyl-, 2-heteroarylalkynyl-, 2-arylazo- and 2-heteroarylazo-pyridines and their salts, and to a process for preparing them.

Moreover the invention relates to a pharmaceutical composition comprising as pharmaceutical active ingredient, together with customary pharmaceutical excipients, a novel 2-arylalkenyl-, 2-heteroarylalkenyl-, 2-arylalkynyl-, 2-heteroarylalkynyl-, 2-arylazo- or 2-heteroarylazo-pyridine or a pharmaceutically acceptable salt thereof.

Agents of the invention are for example compounds of formula I

$$R_{2} \xrightarrow{R_{3}} R_{4} \times X - R_{5} \tag{1}$$

#### wherein

R<sub>1</sub> denotes hydrogen, lower alkyl, hydroxy-lower alkyl lower alkyl-amino, piperidino, carboxy, esterified carboxy, amidated carboxy, unsubstituted or lower alkyl-, lower alkoxy-, halo- and/or trifluoromethyl-substituted N-lower-alkyl-N-phenylcarbamoyl, lower alkoxy, halo-lower alkyl or halo-lower alkoxy,

R<sub>2</sub> denotes hydrogen, lower alkyl, carboxy, esterified carboxy, amidated carboxy, hydroxylower alkyl, hydroxy, lower alkoxy or lower alkanoyloxy, 4-(4-fluoro-benzoyl)-piperidin-1-yl-carboxy, 4-t.-butyloxycarbonyl-piperazin-1-yl-carboxy, 4-(4-azido-2-hydroxybenzoyl)-piperazin-1-yl-carboxy or 4-(4-azido-2-hydroxy-3-iodo-benzoyl)-piperazin-1-yl-carboxy, R<sub>3</sub> represents hydrogen, lower alkyl, carboxy, lower alkoxy-carbonyl, lower alkyl-carbamoyl, hydroxy- lower alkyl, di- lower alkyl- aminomethyl, morpholinocarbonyl or 4-(4-fluoro-benzoyl)-piperidin-1-yl-carboxy,

R<sub>4</sub> represents hydrogen, lower alkyl, hydroxy, hydroxy-lower alkyl, amino-lower alkyl, lower alkylamino-lower alkyl, di-lower alkylamino-lower alkyl, unsubstituted or hydroxy-substituted lower alkyleneamino-lower alkyl, lower alkoxy, lower alkanoyloxy, amino-lower alkoxy, lower alkylamino-lower alkoxy, di-lower alkylamino-lower alkoxy, phthalimido-lower alkoxy, unsubstituted or hydroxy- or 2-oxo-imidazolidin-1-yl-substituted lower alkyleneamino-lower alkoxy, carboxy, esterified or amidated carboxy, carboxy-lower-alkoxy or esterified carboxy-lower-alkoxy,

X represents an optionally halo-substituted lower alkenylene or alkynylene group bonded via vicinal unsaturated carbon atoms or an azo (-N=N-) group, and

R<sub>5</sub> denotes an aromatic or heteroaromatic group which is unsubstituted or substituted by one or more substituents selected from lower alkyl, halo, halo-lower alkyl, halo-lower alkoxy, lower alkenyl, lower alkynyl, unsubstituted or lower alkyl-, lower alkoxy-, halo- and/or trifluoromethyl-substituted phenyl, unsubstituted or lower alkyl-, lower alkoxy-, halo- and/or trifluoromethyl-substituted phenyl-lower alkynyl, hydroxy, hydroxy-lower alkyl, lower alkanoyloxy-lower alkyl, lower alkoxy, lower alkenyloxy, lower alkylenedioxy, lower alkanoyloxy, amino-, lower alkylamino-, lower alkanoylamino- or N-lower alkyl-N-lower alkanoylamino-lower alkoxy, unsubstituted or lower alkyl- lower alkoxy-, halo- and/or trifluoromethyl-substituted phenoxy, unsubstituted or lower alkyl- lower alkoxy-, halo- and/or

trifluoromethyl-substituted phenyl-lower alkoxy, acyl, carboxy, esterified carboxy, amidated carboxy, cyano, carboxy-lower alkylamino, esterified carboxy-lower alkylamino, amidated carboxy-lower alkylamino, phosphono-lower alkylamino, esterified phosphono-lower alkylamino, nitro, amino, lower alkylamino, di-lower alkylamino, acylamino, N-acyl-N-lower alkylamino, phenylamino, phenyl-lower alkylamino, cycloalkyl-lower alkylamino or heteroaryl-lower alkylamino each of which may be unsubstituted or lower alkyl- lower alkoxy-, halo- and/or trifluoromethyl-substituted, customary photoaffinity ligands and customary radioactive markers, inclusive of their N-oxides and their pharmaceutically acceptable salts.

Compounds of formula I having basic groups may form acid addition salts, and compounds of the formula I having acidic groups may form salts with bases. Compounds of formula I having basic groups and in addition having at least one acidic group, may also form internal salts.

Also included are both total and partial salts, that is to say salts with 1, 2 or 3, preferably 2, equivalents of base per mole of acid of formula I, or salts with 1, 2 or 3 equivalents, preferably 1 equivalent, of acid per mole of base of formula I.

For the purposes of isolation or purification it is also possible to use pharmaceutically unacceptable salts. Only the pharmaceutically acceptable, non-toxic salts are used therapeutically and they are therefore preferred.

Halo in the present description denotes fluorine, chlorine, bromine or iodine.

When X represents an alkenylene group, configuration trans is preferred.

Preferred compounds of formula I are those wherein

- X represents an optionally halo-substituted (C<sub>2-4</sub>)alkenylene or alkynylene group bonded via vicinal unsaturated carbon atoms,
- R<sub>1</sub> is hydrogen, (C<sub>1-4</sub>) alkyl, (C<sub>1-4</sub>)alkoxy, hydroxy(C<sub>1-4</sub>)alkyl, cyano, ethynyl, carboxy, (C<sub>1-4</sub>)alkoxycarbonyl, di(C<sub>1-4</sub>)alkylamino, (C<sub>1-6</sub>)alkylaminocarbonyl, trifluoromethylphenylaminocarbonyl,
- R<sub>2</sub> is hydrogen, hydroxy, (C<sub>1-4</sub>) alkyl, hydroxy (C<sub>1-4</sub>) alkyl, (C<sub>1-4</sub>) alkoxy, carboxy, (C<sub>2-5</sub>)alkanoyloxy, (C<sub>1-4</sub>) alkoxycarbonyl, di(C<sub>1-4</sub>)alkylamino(C<sub>1-4</sub>)alkanoyl,

- di(C<sub>1-4</sub>)alkylaminomethyl, 4-(4-fluoro-benzoyl)-piperidin-1-yl-carboxy, 4-t.butyloxycarbonyl-piperazin-1-yl-carboxy, 4-(4-azido-2-hydroxybenzoyl)-piperazin-1-yl-carboxy or 4-(4-azido-2-hydroxy-3-iodo-benzoyl)-piperazin-1-yl-carboxy,
- R<sub>3</sub> is hydrogen, (C<sub>1-4</sub>) alkyl, carboxy, (C<sub>1-4</sub>)alkoxycarbonyl, (C<sub>1-4</sub>)alkylcarbamoyl, hydroxy(C<sub>1-4</sub>)alkyl, di(C<sub>1-4</sub>)alkylaminomethyl, morpholinocarbonyl or 4-(4-fluorobenzoyl)-piperidin-1-yl-carboxy,
- R<sub>4</sub> is hydrogen, hydroxy,  $(C_{1-4})$ alkoxy, carboxy,  $(C_{2-5})$ alkanoyloxy,  $(C_{1-4})$ alkoxycarbonyl, amino $(C_{1-4})$ alkoxy, di $(C_{1-4})$ alkylamino $(C_{1-4})$ alkylamino $(C_{1-4})$ alkylamino $(C_{1-4})$ alkylamino $(C_{1-4})$ alkoxycarbonyl $(C_{1-4})$ alkoxy, hydroxy $(C_{1-4})$ alkylamino $(C_{1-4})$ alkoxy, m-hydroxy-p-azidophenylcarbonylamino $(C_{1-4})$ alkoxy, and
- R<sub>5</sub> is a group of formula

#### wherein

R<sub>a</sub> and R<sub>b</sub> independently are hydrogen, hydroxy, halogen, nitro, cyano, carboxy, (C<sub>1-4</sub>)alkyl, (C<sub>1-4</sub>)alkoxy, hydroxy(C<sub>1-4</sub>)alkyl, (C<sub>1-4</sub>)alkoxycarbonyl, (C<sub>2-7</sub>)alkanoyl, (C<sub>2-5</sub>)alkanoyloxy, (C<sub>2-5</sub>)alkanoyloxy(C<sub>1-4</sub>)alkyl, trifluoromethyl, trifluoromethoxy, trimethylsilylethynyl, (C<sub>2-5</sub>)alkynyl, amino, azido, amino (C<sub>1-4</sub>)alkoxy, (C<sub>2-5</sub>)alkanoylamino(C<sub>1-4</sub>)alkoxy, (C<sub>1-4</sub>)alkylamino(C<sub>1-4</sub>)alkoxy, di(C<sub>1-4</sub>)alkylamino (C<sub>1-4</sub>)alkylamino, monohalobenzylamino, thienylmethylamino, thienylcarbonylamino, trifluoromethylphenylaminocarbonyl, tetrazolyl, (C<sub>2-5</sub>)alkanoylamino, benzylcarbonylamino, (C<sub>1-4</sub>)alkylaminocarbonylamino, (C<sub>1-4</sub>)alkoxycarbonyl-aminocarbonylamino or (C<sub>1-4</sub>)alkylsulfonyl, R<sub>c</sub> is hydrogen, fluorine, chlorine, bromine, hydroxy, (C<sub>1-4</sub>)alkyl, (C<sub>2-5</sub>)alkanoyloxy, (C<sub>1-4</sub>)alkoxy or cyano, and R<sub>d</sub> is hydrogen, halogen or (C<sub>1-4</sub>)alkyl.

More preferred compounds of formula I are those wherein X is as defined above and

R<sub>1</sub> is hydrogen, (C<sub>1-4</sub>) alkyl, (C<sub>1-4</sub>)alkoxy, cyano, ethynyl or di(C<sub>1-4</sub>)alkylamino,

R<sub>2</sub> is hydrogen, hydroxy, carboxy, (C<sub>1-4</sub>) alkoxycarbonyl, di(C<sub>1-4</sub>)alkylaminomethyl, 4-(4-fluoro-benzoyl)-piperidin-1-yl-carboxy, 4-t.-butyloxycarbonyl-piperazin-1-yl-carboxy, 4-(4-azido-2-hydroxybenzoyl)-piperazin-1-yl-carboxy or 4-(4-azido-2-hydroxy-3-iodo-benzoyl)-piperazin-1-yl-carboxy,

R<sub>3</sub> is as defined above,

R<sub>4</sub> is hydrogen, hydroxy, carboxy, (C<sub>2-5</sub>)alkanoyloxy, (C<sub>1-4</sub>)alkoxycarbonyl, amino (C<sub>1-4</sub>)alkoxy, di(C<sub>1-4</sub>)alkylamino(C<sub>1-4</sub>)alkylamino(C<sub>1-4</sub>)alkylamino(C<sub>1-4</sub>)alkyl or hydroxy(C<sub>1-4</sub>)alkyl, and

R<sub>5</sub> is a group of formula

wherein

 $R_a$  and  $R_b$  independently are hydrogen, halogen, nitro, cyano, ( $C_{1-4}$ )alkyl, ( $C_{1-4}$ )alkoxy, trifluoromethyl, trifluoromethoxy or ( $C_{2-5}$ )alkynyl, and  $R_c$  and  $R_d$  are as defined above.

The agents of the invention include, for example, the compounds described in the examples hereinafter.

The usefulness of the agents of the invention in the treatment of the above-mentioned disorders could be confirmed in a range of standard tests including those indicated below:

At doses of about 10 to 100 mg/kg i.p. or p.o. with pretreatment times of 15 min. to 8 hours, the agents of the invention show anticonvulsive activity in the electroshock induced convulsion model [cf. E.A. Swinyard, J. Pharm. Assoc. Scient. Ed. 38, 201 (1949) and J. Pharmacol. Exptl. Therap. 106, 319 (1952)].

At doses of about 4 to about 40 mg/kg p.o., the agents of the invention show reversal of Freund complete adjuvant (FCA) induced hyperalgesia [cf. J. Donnerer et al., Neuroscience 49, 693-698 (1992) and C.J. Woolf, Neuroscience 62, 327-331 (1994)].

For all the above mentioned indications, the appropriate dosage will of course vary depending upon, for example, the compound employed, the host, the mode of administration and the nature and severity of the condition being treated. However, in general, satisfactory results in animals are indicated to be obtained at a daily dosage of from about 0.5 to about 100 mg/kg animal body weight. In larger mammals, for example humans, an indicated daily dosage is in the range from about 5 to 1500 mg, preferably about 10 to about 1000 mg of the compound conveniently administered in divided doses up to 4 times a day or in sustained release form.

Preferred compounds for the above mentioned indications include (3-{2-[2-trans-(3,5-dichlorophenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-propyl)-dimethylamine (A), 2-methyl-6-styryl-pyridine (B), 2-(3-fluoro-phenylethynyl)-6-methyl-pyridine (C) and 2-(4-ethoxy-3-trifluoromethyl-phenylethynyl)-6-methyl-pyridine (D). It has for example been determined that in the above-mentioned electroshock induced convulsion model, compounds A and B show anticonvulsive activity with ED<sub>50</sub>s of 30 and 35 mg/kg i.p. respectively (pretreatment times: 4 hours and 15 min. respectively) and that in the above-mentioned FCA induced hyperalgesia model, compounds C and D show reversal of the hyperalgesia with ED<sub>50</sub>s of 4.2 and 19 mg/kg p.o. respectively (post-treatment time: 3 hours).

As indicated above, the agents of the invention include novel 2-arylalkenyl-, 2-heteroarylalkynyl-, 2-arylalkynyl-, 2-heteroarylalkynyl-, 2-arylazo- and 2-heteroarylazo-pyridines and their salts, hereinafter referred to as "compounds of the invention".

Compounds of the invention include compounds of formula I as defined above, and their salts, wherein X and R<sub>1</sub> to R<sub>5</sub> are as defined above, provided that when R<sub>3</sub> is hydrogen, a) in compounds of the formula I in which R<sub>1</sub>, R<sub>2</sub> and R<sub>4</sub> are hydrogen, R<sub>5</sub> is different from phenyl, monohalophenyl, 2,4- and 3,4-dichlorophenyl, 3- and 4-trifluoromethylphenyl, methylphenyl, 3,4- and 2,5-dimethylphenyl, 4-isopropylphenyl, 3,5-di-tert.-butylphenyl, methoxyphenyl, 3,4-dimethoxyphenyl, 2,4,5- and 3,4,5-trimethoxyphenyl, hydroxyphenyl, 3,5-dihydroxyphenyl, 4-hydroxy-3,5-dimethyl-phenyl, 3-hydroxy-4-methoxy- and 4-hydroxy-3-methoxy-phenyl, 4-hydroxy-(3-methyl-5-tert.-butyl-, 2- and 4-acetylaminophenyl, 3,5-diisopropyl- and 3,5-di-tert.-butyl)phenyl, 4-carboxy- and 4-ethoxycarbonylphenyl, 4-cyanophenyl, 3-methoxycarbonylphenyl, 3-carboxy-5-methoxy-phenyl, 2-pyridinyl, 5-chloro-2-pyridinyl and 6-methyl-2-pyridinyl when X denotes ethenylene, or R<sub>5</sub> is different from phenyl, 4-methylphenyl, 4-methoxyphenyl, 4-bromophenyl and 2- and 4-chlorophenyl when

X denotes 1,2-propylene attached to  $R_5$  in 2-position, or  $R_5$  is different from phenyl, 2- and 4-chlorophenyl and 3-methoxyphenyl when X denotes 1,2-propylene attached to  $R_5$  in 1-position, or  $R_5$  is different from 4-methoxyphenyl when X denotes 2,3-but-2-enylene or 1,2-but-1-enylene attached to  $R_5$  in 2-position, or  $R_5$  is different from 4-methoxyphenyl and 4-isopropyphenyl when X denotes 2,3-pent-2-enylene attached to  $R_5$  in 3-position, or  $R_5$  is different from phenyl, 4-methylphenyl, methoxyphenyl and 4-hydroxyphenyl when X denotes 3,4-hex-3-enylene;

- b) in compounds of the formula I in which  $R_1$  is methyl and  $R_2$  and  $R_4$  are hydrogen,  $R_5$  is different from phenyl, 3-methylphenyl, 2-methoxyphenyl, 2-chlorophenyl, 4-cyanophenyl, 2-pyridinyl and 6-methyl-2-pyridinyl when X denotes ethenylene;
- c) in compounds of the formula I in which  $R_1$  and  $R_2$  are hydrogen and  $R_4$  is carboxy,  $R_5$  is different from phenyl, 3-methylphenyl, 4-methoxyphenyl and 4-bromophenyl when X denotes ethenylene;
- d) in compounds of the formula I in which  $R_1$  and  $R_2$  are hydrogen and  $R_4$  is methyl,  $R_5$  is different from phenyl, 3-methoxy-, 4-methoxy- and 3,4-dimethoxyphenyl, 2-chloro- and 2,4-dichlorophenyl and 6-methyl-pyrid-2yl when X denotes ethenylene or  $R_5$  is different from phenyl when X is 1,2-prop-1-enylene attached to  $R_5$  in 2-position;
- e) in compounds of the formula I wherein  $R_1$  and  $R_2$  are hydrogen and  $R_4$  is 2-dimethylaminoethoxycarbonyl or 3-dimethylaminopropyloxycarbonyl,  $R_5$  is different from 4-methoxyphenyl when X denotes ethenylene;
- f) in compounds of the formula I in which  $R_1$  and  $R_2$  are hydrogen and  $R_4$  is 2-dimethoxyethoxy,  $R_5$  is different from phenyl, 4-methylphenyl and 4-methoxycarbonylphenyl when X denotes ethenylene;
- g)  $R_5$  is different from phenyl when  $R_1$  and  $R_2$  are hydrogen and  $R_4$  is hydroxy or ethoxy-carbonyl, or when  $R_1$  and  $R_2$  are hydrogen and  $R_4$  is hydroxy, or when  $R_1$  is methyl,  $R_2$  is hydrogen and  $R_4$  is methoxy, or  $R_1$  is but-1-enyl,  $R_2$  is hydrogen and  $R_4$  is hydrogen, or  $R_1$  is hydrogen and  $R_4$  is 2-dimethoxyethoxy, and X is, in each case, ethenylene, and provided that, when  $R_3$  is hydrogen and X is ethynylene,
- a')  $R_5$  is different from phenyl, 2- and 4-nitrophenyl, 4-aminophenyl, 4-chlorophenyl, 4-methylphenyl, 4-methoxyphenyl, 4-ethoxycarbonylphenyl, 5-formyl-2-methoxy-phenyl and pyridyl when  $R_1$ ,  $R_2$  and  $R_4$  are hydrogen;
- b') in compounds of the formula I in which  $R_2$  and  $R_4$  are hydrogen,  $R_5$  is different from phenyl, 3-methylphenyl. 6-methylpyridin-2-yl and 2-methoxyphenyl when  $R_1$  is methyl,  $R_5$  is different form 6-bromopyridin-2-yl when  $R_1$  is bromo, and  $R_5$  is different form 6-hexyloxypyridin-2-yl when  $R_1$  denotes hexyloxy;

c') in compounds of the formula I wherein  $R_1$  and  $R_4$  are hydrogen,  $R_5$  is different from phenyl, 4-aminophenyl and 4-propylphenyl when  $R_2$  is methyl,  $R_5$  is different from phenyl, 4-cyanophenyl and 4-pentylphenyl when  $R_2$  is ethyl,  $R_5$  is different form 3-cyano-4-ethoxy-phenyland 3-bromo-4-methoxy-phenyl when  $R_2$  is butyl,  $R_5$  is different from 4-methoxy-phenyl and 4 butyloxyphenyl when  $R_2$  is pentyl,  $R_5$  is different form 4-ter,-butylphenyl, 3-tert,-butyl-4-hydroxy-phenyl, 4-tert,-butyl-3-hydroxy-phenyl,and 4-hexyloxyphenyl when  $R_2$  is carboxy,  $R_5$  is different from phenyl when  $R_2$  is methoxycarbonyl or methylcarbamoyl,  $R_4$  is different form 3-tert,-butylphenyl, 3-tert,-butyl-4-hydroxy-phenyl and 4-(4-methylpentyl)phenyl when  $R_2$  is ethoxycarbonyl, and  $R_5$  is different from 4-pentyloxyphenyl when  $R_2$  is 2-methylbutyloxycarbonyl;

d') in compounds of the formula I wherein  $R_1$  and  $R_2$  are hydrogen,  $R_5$  is different from phenyl when  $R_4$  is hydroxy, methyl, ethyl, carboxy, methoxycarbonyl or carbamoyl.

Preferred compounds of the invention are as indicated above for the agents of the invention.

The compounds of the invention can be prepared in analogy to the synthesis of known compounds of formula I.

Thus the compounds of the invention which are of formula I can be prepared for example by a process which comprises

a) reacting a compound of the formula II

$$\begin{array}{c} R_3 \\ R_2 \\ N \end{array} \begin{array}{c} R_4 \\ Y_1 \end{array}$$
 (II)

with a compound of the formula  $Y_2 - R_5$  (III), in which either one of  $Y_1$  and  $Y_2$  denotes lower alkanoyl and the other one represents lower alkyl or triarylphosphoranylidenemethyl, or one of  $Y_1$  and  $Y_2$  denotes a reactive esterified hydroxy group and the other one represents a group  $Y_3 - X$ - in which  $Y_3$  is hydrogen or a metallic group, and  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$  and  $R_5$  have the meanings indicated hereinbefore and functional groups  $R_1$ ,  $R_2$ ,  $R_3$  and  $R_4$  as well as functional substituents of  $R_5$  may be temporarily protected, or

b) eliminating H — Y<sub>4</sub> from a compound of the formula IV

$$R_2$$
 $R_1$ 
 $R_3$ 
 $R_4$ 
 $R_5$ 
 $R_5$ 
 $R_1$ 
 $R_5$ 
 $R_5$ 
 $R_5$ 

in which Y<sub>4</sub> denotes an electrofugal group and R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, X and R<sub>5</sub> have the meanings indicated hereinbefore and functional groups R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> and R<sub>4</sub> as well as functional substituents of R<sub>5</sub> may temporarily be protected, removing any temporary protecting groups

and, if desired, converting a compound of formula I obtainable by the above-defined processes into a different compound of formula I, resolving a mixture of isomers that may be obtained into the individual isomers and/or converting a compound of formula I having at least one salt-forming group obtainable by the above-defined processes into a salt, or converting a salt obtainable by the above-defined processes into the corresponding free compound or into a different salt.

A lower alkanoyl  $Y_2$  or, more preferably,  $Y_1$  group is, for example, a  $C_1$ - $C_3$ alkanoyl group, such as formyl, acetyl or propionyl, especially formyl. A lower alkyl group  $Y_1$  or, more preferably,  $Y_2$  is, for example, a  $C_1$ - $C_3$ alkyl group, such as methyl, ethyl or propyl, especially methyl. Triarylphosphoranylidenemethyl  $Y_2$  or, more preferably,  $Y_1$  is, for example, triphenylphosphoranylidenemethyl.

When one of Y<sub>1</sub> and Y<sub>2</sub> denotes a reactive esterified hydroxy group and the other one represents a group of the formula Y<sub>3</sub>–X- in which Y<sub>3</sub> denotes hydrogen, the condensation is preferably performed according to the Heck coupling method, for example, in the presence of copper or of a copper catalyst or of a noble metal/phosphine catalyst, such as Palladium or a PdII salt in the presence of triaryl phosphine, for example, Palladium acetate, and of triphenylphosphine, or in the presence of bis-triphenylphosphine-palladium dichloride, preferably in the presence of a tri-lower alkyl amine, for example, trimethylamine, advantageously in the presence of Cu<sup>1</sup>-I, in a polar organic solvent such as N,N-di-lower alkyl-alkanoic acid amide, for example, dimethylformamide, a di-lower alkyl sulfoxide, for example, dimethylsulfoxide, or dioxan, at temperatures from appropriately 15° C to appropriately 120° C, preferably at the boil.

When one of  $Y_1$  and  $Y_2$  denotes a reactive esterified hydroxy group and the other one represents a group of the formula  $Y_3$ —X- in which  $Y_3$  denotes a metallic group such as a

halo-magnesium group, the reaction is preferably performed according to Grignard method, wherein the metallic intermediate is preferably formed *in situ*.

When one of  $Y_1$  and  $Y_2$  denotes lower alkanoyl and the other one represents lower alkyl, the intermolecular condensation of compounds of the formulae II and III is preferably performed according to the Shaw and Wagstaff method or one of its many modifications.

When one of Y<sub>1</sub> and Y<sub>2</sub> denotes lower alkanoyl and the other one represents triarylphosphoranylidenemethyl, the condensation is preferably performed according to the well known Wittig olefin-building method, preferably by forming the phosphoranylidene component from a corresponding triarylphosphonium halide *in situ*, for example, by reacting the latter with a metal base, such as an alkalimetal hydride, such as sodium hydride, or with a metal-organic base, such as a lower alkyl metal compound, such as butyllithium, or with an alkali metal alkanolate, for example, potassium tertiary butoxide, preferably in an inert organic solvent, such as an aromatic or arylaliphatic hydrocarbon, for example, benzene or toluene, at appropriately -10° C to appropriately 39° C, preferably first at 0° to 10° C and then at ambient temperature.

Electrofugal groups Y<sub>4</sub> are, for example, esterified hydroxy groups, such as hydroxy groups esterified with an organic acid, for example, lower alkanoyloxy or hydroxy groups esterified with an anorganic acid, for example, halo groups, or tertiary amino groups, such as tri-lower alkylamino groups, for example, trimethylamino, or lower-alkyleneamino, lower azaalkyleneamino, lower-oxyalkyleneamino or lower thiaalkyleneamino groups, such as pyrrolidino, piperidino, morpholino or thiomorpholino, or corresponding quaternary ammonium groups.

The protection of functional groups by such protecting groups, the protecting groups themselves and the reactions for their removal are described, for example, in standard works.

The elimination of  $H - Y_4$  from compounds of formula IV can be performed in a customary manner. Thus, water or lower alkanoic acids may be eliminated by means of azeotropic distillation, for example, in toluene, advantageously under mild-acidic conditions. Hydrogen halides may be removed under basic conditions such as reaction with an alkalimetal alkanolate, preferably in the corresponding lower alkanol as a solvent or co-solvent, or by heating in the presence of a tertiary amine, such as a tri-lower alkylamine.

The starting materials for the above described reactions are generally known. Novel starting materials can be obtained in manner analogous to the methods for the preparation of known starting materials.

Compounds of formula I obtainable in accordance with the process can be converted into different compounds of formula I in customary manner, for example a free carboxy group may be esterified or amidated, an esterified or amidated carboxy group may be converted into a free carboxy group, an esterified carboxy group can be converted into an unsubstituted or substituted carbamoyl group, a free amino group can be acylated or alkylated, and a free hydroxy can be acylated.

Also, compounds of the formula I can be oxidized by customary methods such as reaction with an organic peroxy acid, yielding the corresponding pyridine-N-oxide derivatives.

Salts of compounds of formula I can also be converted in a manner known *per se* into the free compounds, for example by treatment with a base or with an acid.

Resulting salts can be converted into different salts in a manner known per se.

The compounds of formula I, including their salts, may also be obtained in the form of hydrates or may include the solvent used for crystallization.

As a result of the close relationship between the novel compounds in free form and in the form of their salts, hereinbefore and hereinafter any reference to the free compounds and their salts is to be understood as including the free compounds, as well as the corresponding salts.

In a compound of formula I the configuration at individual chirality centers can be selectively reversed. For example, the configuration of asymmetric carbon atoms that carry nucleophilic substituents, such as amino or hydroxy, can be reversed by second order nucleophilic substitution, optionally after conversion of the bonded nucleophilic substituent into a suitable nucleofugal leaving group and reaction with a reagent introducing the original substituent, or the configuration at carbon atoms having hydroxy groups can be reversed by oxidation and reduction, analogously to European Patent Application EP-A-0 236 734.

The invention relates also to pharmaceutical compositions comprising compounds of formula I.

The pharmacologically acceptable compounds of the present invention may be used, for example, in the preparation of pharmaceutical compositions that comprise an effective amount of the active ingredient together or in a mixture with a significant amount of inorganic or organic, solid or liquid, pharmaceutically acceptable carriers.

The pharmaceutical compositions according to the invention are compositions for enteral, such as nasal, rectal or oral, or parenteral, such as intramuscular or intravenous, administration to warm-blooded animals (human beings and animals) that comprise an effective dose of the pharmacological active ingredient alone or together with a significant amount of a pharmaceutically acceptable carrier. The dose of the active ingredient depends on the species of warm-blooded animal, body weight, age and individual condition, individual pharmacokinetic data, the disease to be treated and the mode of administration.

The pharmaceutical compositions comprise from approximately 1% to approximately 95%, preferably from approximately 20% to approximately 90%, active ingredient. Pharmaceutical compositions according to the invention may be, for example, in unit dose form, such as in the form of ampoules, vials, suppositories, dragées, tablets or capsules.

The pharmaceutical compositions of the present invention are prepared in a manner known *per se*, for example by means of conventional dissolving, lyophilizing, mixing, granulating or confectioning processes.

The doses to be administered to warm-blooded animals, for example human beings, of, for example, approximately 70 kg body weight, especially the doses effective in disorders caused by or associated with irregularities of the glutamatergic signal transmission, are from approximately 3 mg to approximately 3 g, preferably from approximately 10 mg to approximately 1 g, for example approximately from 20 mg to 500 mg, per person per day, divided preferably into 1 to 4 single doses which may, for example, be of the same size. Usually, children receive about half of the adult dose. The dose necessary for each individual can be monitored, for example by measuring the serum concentration of the active ingredient, and adjusted to an optimum level.

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The following non-limiting Examples serve to illustrate the invention; temperatures are given in degrees Celsius, pressures in mbar.

#### **EXAMPLE 1**

3-[2-(6-Methylpyridin-2-yl)-vinyl]-benzonitrile

A solution of 2,6-dimethyl pyridine (4.2ml, 36.28 mMol), 3-cyanobenzaldehyde (4.95g, 37.74 mMol) in acetic anhydride (6.85 ml) is heated under reflux for 16 hours. The acetic anhydride is then evaporated in vacuo and the residue purified on column chromatography (silica gel 400g). The column is first eluted with toluene (400 ml) and then with toluene/ethyl acetate 95:5. The fractions containing the desired compound are combined, evaporated in vacuo. The solid residue is recrystallized from methylene chloride/hexane and 3.18 g of white crystals are isolated. (melting point: 91-92°).

#### **EXAMPLE 2:**

2-[2-(6-Methyl-pyridin-2-yi)-vinyl]-benzonitrile

A solution of 2,6-dimethyl pyridine (5.8 ml, 50 mMol), 2-cyanobenzaldehyde (6.81 g, 52 mMol) in acetic anhydride (9.5 ml) is heated under reflux for 16 hours. The acetic anhydride is then evaporated in vacuo and the residue purified on column chromatography (silica gel 400g). The column is first eluted with toluene (400 ml) and then with toluene/ethyl acetate 95:5. The fractions containing the desired compound are combined, evaporated in vacuo. The solid residue is recrystallized from methylene chloride/diisopropyl ether and white crystals are isolated. (melting point: 113-114°).

#### EXAMPLE 3

2-Methyl-6-[2-(pyridin-4-yl)-vinyl]-pyridine

A solution of 2,6-dimethyl pyridine (5.8 ml, 50 mMol), pyridine-4-carbaldehyde (4.9 ml, 52 mMol) in acetic anhydride (9.5 ml) is heated under reflux for 16 hours. The acetic anhydride is then evaporated in vacuo and the residue purified on column chromatography (silica gel 900g). The column is first eluted with toluene/acetone 4:1 (5 L), then with toluene/acetone 3:1 (5 L) and finally with toluene/acetone 2:1 (15 L). The fractions containing the desired compound are combined, evaporated in vacuo. The solid residue is recrystallized from methylene chloride/diisopropyl ether and 0.956 g of white crystals are isolated. (melting point: 72-73°C).

# EXAMPLE 4 2-Methyl-6-[2-(pyridin-3-yl)-vinyl]-pyridine

A solution of 2,6-dimethyl pyridine (5.8 ml, 50 mMol), pyridine-3-carbaldehyde (4.9 ml, 52 mMol) in acetic anhydride (9.5 ml) is heated under reflux for 10 hours. The acetic anhydride is then evaporated in vacuo and the residue purified on column chromatography anhydride is then evaporated in vacuo and the residue purified on column chromatography (silica gel 900g). The column is first eluted with toluene/acetone 9:1 (7 L), then with toluene/acetone 4:1 (5 L) and finally with toluene/acetone 2:1 (5 L). The fractions containing the desired compound are combined, evaporated in vacuo. The solid residue is recrystallized from methylene chloride/diisopropyl ether and 4,28 g of a colorless oil which solidify upon standing at 6-8°C.

#### **EXAMPLE 5**

#### 2-[2-(3-Bromophenyl)ethynyl]-6-methyl-pyridine

1.2 g (2.8 mMol) of 2-[1,2-dibromo-2-(3-bromophenyl)-ethyl]-6-methyl-pyridine are dissolved in 10 ml of ethanol. 0.9 g (16.1 mMol) of potassium hydroxide (powder) are added, and the resulting suspension is heated under reflux for 4 hours. The suspension is then cooled to room temperature, poured into 100 ml of brine and extracted thrice with 30 ml each of *t*-butyl methyl ether. The combined organic phases are washed with 30 ml of brine, dried over Sodium sulfate, filtrated and evaporated *in vacuo*. 0.720 g of the title compound are obtained as a colorless oil crystallizing on standing; melting point 60-61°.

The starting material can be obtained as follows:

#### a) 2-[2-(3-Bromophenyl)-vinyl]-6-methyl-pyridine

A solution of 24 ml (200 mMol) of 2,6-dimethyl pyridine and 25.6 ml (207 mMol) of 3-bromobenzaldehyde in 38 ml of acetic anhydride is heated under reflux for 7.5 hours. The acetic anhydride is then evaporated *in vacuo*, and the residue is dissolved in 500 ml of 4N hydrochloric acid and twice extracted with 200 ml each of hexane. The water phase is then extracted four times with 300 ml each of tert.-butyl methyl ether. The combined organic phases are washed twice with 300 ml each of a saturated solution of NaHCO<sub>3</sub> in water, then once with 300 ml of brine (300 ml), dried over sodium sulfate, filtrated and evaporated *in vacuo* yielding 4.2 g of the title compound as colorless crystals of melting point 58-59°.

## b) 2-[1,2-dibromo-2-(3-bromophenyl)-ethyl]-6-methyl-pyridine

1 g (3.6 mMol) of 2-(3-Bromo-phenylethynyl)-6-methyl-pyridine are dissolved in 5 ml of carbon tetrachloride, and the solution is heated to 55-60°. A solution of 0.23 ml (4.4 mMol) of bromine  $Br_2$  in 1 ml of carbon tetrachloride is added dropwise. The reaction mixture is maintained at 55-60° for 30 minutes and then cooled to room temperature. The resulting precipitate is collected by filtration and dried *in vacuo*. 1.3 g of the title compound in form of yellow crystals of melting point 164-166are isolated.

## EXAMPLE 6

3-[2-(6-Methylpyridin-2-yl)ethynyl]-benzonitrile

A mixture of 1 g (8.54 mMol) 2-ethynyl-6-methyl-pyridine (prepared in analogy to D. E. Ames et al., Synthesis, 1981, p. 364-5), 2.3 g (12.8 mMol) 3-bromo-benzonitrile, 0.47 g (0.7 mMol) bis-(triphenylphosphine)-palladium-II-chloride, 80 mg (0.41 mMol) cuprous iodide and 1.53 ml (15 mMol) triethylamine in 10 ml dimethylformamide is stirred for 3 hours at 90° C. The reaction mixture is cooled to ambient temperature, poured into water and extracted with dichloromethane. The organic layer is dried over sodium sulfate, filtered, evaporated to dryness and the residue is purified by chromatography on silica gel with hexane/ethyl acetate (4:1) as eluant. Crystallization from hexane of the obtained product affords 0.53 g (28.4 %) of the title compound as brown crystals, melting point 120-3° C.

#### **EXAMPLE 7**

In analogous manner to Example 1 (when X is alkenylene) or Example 5 (when X is alkynylene), the following compounds of formula I can be prepared:

Compound of formula I	Melting point (°C)
2-Styryl-pyridin-3-ol	249-252
2-Methyl-6-[2-(3-nitro-phenyl)-vinyl]-pyridine	100-101
2-[2-(2-Chloro-phenyl)-vinyl]-pyridine	colorless oil
2-Methyl-6-styryl-pyridine	40-42
Acetic acid 6-[2-(2-chloro-phenyl)-vinyl]-pyridin-3-yl ester	75-77
6-[2-(2-Chloro-phenyl)-vinyl]-pyridin-3-ol	168-171
Acetic acid 2-[2-(2-chloro-phenyl)-vinyl]-pyridin-3-yl ester	99-102

2-[2-(2-Chloro-phenyl)-vinyl]-pyridin-3-ol         232-234           6-Methyl-2-styryl-pyridin-3-ol         261 dec           Acetic acid 2-[2-(2-chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester         92-94           2-[2-(2-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-ol         232-234           (2)-6-Methyl-2-styryl-pyridin-3-ol         145-148           2-[2-(2-Chloro-phenyl)-vinyl]-b-methyl-pyridine         51-52           2-[2-(2-Fluoro-phenyl)-vinyl]-pyridine         69-70           2-[2-(2-Nitro-phenyl)-vinyl]-pyridine         97-99           Acetic acid 2-[2-(4-chloro-phenyl)-vinyl]-e-methyl-pyridin-3-yl ester         102-103           Acetic acid 6-[2-(4-chloro-phenyl)-vinyl]-e-methyl-pyridin-3-yl ester         130-131           2-[2-(4-Chloro-phenyl)-vinyl]-e-methyl-pyridin-3-ol         275-278 dec           6-[2-(4-Chloro-phenyl)-vinyl]-e-methyl-pyridin-3-ol         265-270 dec           Acetic acid 6-methyl-2-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester         139-140           6-Methyl-2-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-ol         190-195 dec           Acetic acid 2-methyl-6-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester         99-100           2-Methyl-6-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester         99-100           2-Methyl-6-[2-(2-(3-chloro-phenyl)-vinyl]-e-methyl-pyridin-3-yl ester         112-114           2-[2-(3-chloro-phenyl)-vinyl]-e-methyl-pyridin-3-yl ester		
Acetic acid 2-[2-(2-chloro-phenyl)-vinyl]-6-methyl-pyridin-3-vl ester   92-94	2-[2-(2-Chloro-phenyl)-vinyl]-pyridin-3-ol	232-234
2-[2-(2-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-ol         232-234           (Z)-6-Methyl-2-styryl-pyridin-3-ol         145-148           2-[2-(2-Chloro-phenyl)-vinyl]-6-methyl-pyridine         51-52           2-[2-(2-Chloro-phenyl)-vinyl]-pyridine         69-70           2-[2-(2-Nitro-phenyl)-vinyl]-pyridine         97-99           Acetic acid 2-[2-(4-chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester         102-103           Acetic acid 6-[2-(4-chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl ester         130-131           2-[2-(4-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester         130-131           2-[2-(4-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl ester         130-131           2-[2-(4-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl ester         130-131           4-(2-(4-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl ester         130-131           4-(2-(4-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl ester         130-140           6-(2-(4-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl ester         190-195 dec           4-(2-(2-(2-(2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester         190-195 dec           2-(2-(2-(2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester         190-195 dec           3-(2-(3-(2-(2-(2-(2-(2-(2-(2-(2-(2-(2-(2-(2-(2-	6-Methyl-2-styryl-pyridin-3-ol	261 dec
(Z)-6-Methyl-2-styryl-pyridin-3-ol   145-148   2-[2-(2-Chloro-phenyl)-vinyl]-6-methyl-pyridine   51-52   2-[2-(2-Chloro-phenyl)-vinyl]-pyridine   69-70   2-[2-(2-Nitro-phenyl)-vinyl]-pyridine   97-99   Acetic acid 2-[2-(4-chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester   102-103   Acetic acid 6-[2-(4-chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl ester   130-131   2-[2-(4-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol   275-278 dec   6-[2-(4-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol   265-270 dec   Acetic acid 6-methyl-2-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester   139-140   190-195 dec   Acetic acid 2-methyl-2-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester   99-100   2-Methyl-6-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester   99-100   2-Methyl-6-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester   97-99   Acetic acid 2-[2-(3-chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl ester   97-99   Acetic acid 6-[2-(3-chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl ester   112-114   2-[2-(3-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol   232-235   6-[2-(3-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol   230-232   (2)-(6-Styryl-pyridin-2-yl)-methanol   69-70   69-70   (E)-(6-Styryl-pyridin-2-yl)-methanol   69-70   (E)-(6-Styryl-pyridin-2-yl)-methanol   69-70   (E)-(6-Styryl-pyridin-2-yl)-methanol   69-70   230-232   (2)-(6-Methyl-2-styryl-pyridin-3-yloxyl-propyl]-amine:hydrochloride   136-139   salt   (E)-6-[2-(2-Pyridyl)vinyl]-2-picoline   56-57   2-Methyl-6-styryl-pyridin-1-oxide   102-103   2-5-228   6-Styryl-pyridin-2-vl-vinyl)-pyridin-3-ol; HCl salt   225-228   6-Styryl-pyridin-2-carbonitrile   92-93   2-[2-(2-6-Dichloro-phenyl)-vinyl]-6-methyl-pyridine   109-104   109-1	Acetic acid 2-[2-(2-chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester	92-94
2-[2-(2-Chloro-phenyl)-vinyl]-6-methyl-pyridine       51-52         2-[2-(2-Fluoro-phenyl)-vinyl]-pyridine       69-70         2-[2-(2-Nitro-phenyl)-vinyl]-pyridine       97-99         Acetic acid 2-[2-(4-chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester       102-103         Acetic acid 6-[2-(4-chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester       130-131         2-[2-(4-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol       275-278 dec         6-[2-(4-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol       265-270 dec         Acetic acid 6-methyl-2-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester       139-140         6-Methyl-2-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-ol       190-195 dec         Acetic acid 2-methyl-6-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester       99-100         2-Methyl-6-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-ol       230-233 dec         Acetic acid 2-[2-(3-chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester       97-99         Acetic acid 6-[2-(3-chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl ester       112-114         2-[2-(3-Chloro-phenyl)-vinyl]-3-methyl-pyridin-3-yl ester       112-114         2-[2-(3-Chloro-phenyl)-vinyl]-3-methyl-pyridin-3-ol       230-232         6-[2-(3-Chloro-phenyl)-vinyl]-3-methyl-pyridin-3-ol       230-232         (2)-(6-Styryl-pyridin-2-yl)-methanol       58-60         2-[2-(2-Pyridyl)-yinyl]-2-picoline       108-110         2	2-[2-(2-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-ol	232-234
2-[2-(2-Fluoro-phenyl)-vinyl]-pyridine       69-70         2-[2-(2-Nitro-phenyl)-vinyl]-pyridine       97-99         Acetic acid 2-[2-(4-chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester       102-103         Acetic acid 6-[2-(4-chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester       130-131         2-[2-(4-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol       275-278 dec         6-[2-(4-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol       265-270 dec         Acetic acid 6-methyl-2-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester       139-140         6-Methyl-2-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-ol       190-195 dec         Acetic acid 2-methyl-6-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester       99-100         2-Methyl-6-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-ol       230-233 dec         Acetic acid 2-[2-(3-chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester       97-99         Acetic acid 6-[2-(3-chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl ester       112-114         2-[2-(3-Chloro-phenyl)-vinyl]-3-methyl-pyridin-3-ol       232-235         6-[2-(3-Chloro-phenyl)-vinyl]-3-methyl-pyridin-3-ol       230-232         (Z)-(6-Styryl-pyridin-2-yl)-methanol       58-60         2.2-(1,2-Ethenediyl)bis[6-methyl]-pyridine       108-110         Dimethyl-[3-(6-methyl-2-styryl-pyridin-3-yl explanations; hydrochloride       136-139         salt       (E)-6-[2-(2-Pyridyl)-yinyl]-2-picoline       56-57 <td>(Z)-6-Methyl-2-styryl-pyridin-3-ol</td> <td>145-148</td>	(Z)-6-Methyl-2-styryl-pyridin-3-ol	145-148
2-[2-(2-Nitro-phenyl)-vinyl]-pyridine         97-99           Acetic acid 2-[2-(4-chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester         102-103           Acetic acid 6-[2-(4-chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl ester         130-131           2-[2-(4-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-ol         275-278 dec           6-[2-(4-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol         265-270 dec           Acetic acid 6-methyl-2-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester         139-140           6-Methyl-2-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester         190-195 dec           Acetic acid 2-methyl-6-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester         99-100           2-Mathyl-6-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester         97-99           Acetic acid 2-[2-(3-chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl ester         112-114           2-[2-(3-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester         112-114           2-[2-(3-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl ester         112-114           2-[2-(3-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol         232-235           6-[2-(3-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol         230-232           (Z)-(6-Styryl-pyridin-2-yl)-methanol         69-70           (E)-(6-Styryl-pyridin-2-yl)-methanol         58-60           2.2-(1,2-Ethenediyl)bis[6-methyl]-pyridin-3-yloxyl-propyl]-amine;hydrochloride         108-110           bimeth	2-[2-(2-Chloro-phenyl)-vinyl]-6-methyl-pyridine	51-52
Acetic acid 2-[2-(4-chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester 130-131 2-[2-(4-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester 130-131 2-[2-(4-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-ol 275-278 dec 6-[2-(4-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol 265-270 dec Acetic acid 6-methyl-2-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester 139-140 6-Methyl-2-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-ol 190-195 dec Acetic acid 2-methyl-6-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester 99-100 2-Methyl-6-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-ol 230-233 dec Acetic acid 2-[2-(3-chloro-phenyl)-vinyl]-pyridin-3-yl ester 97-99 Acetic acid 2-[2-(3-chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl ester 97-99 Acetic acid 6-[2-(3-chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester 112-114 2-[2-(3-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-ol 232-235 6-[2-(3-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol 230-232 (Z)-(6-Styryl-pyridin-2-yl)-methanol 69-70 (E)-(6-Styryl-pyridin-2-yl)-methanol 58-60 2.2-(1,2-Ethenediyl)bis[6-methyl]-pyridine 108-110 Dimethyl-[3-(6-methyl-2-styryl-pyridin-3-yloxy)-propyl]-amine;hydrochloride salt (E)-6-[2-(2-Pyridyl)vinyl]-2-picoline 56-57 2-Methyl-6-styryl-pyridine 1-oxide 156-159 2-Styryl-pyridine 1-oxide 156-159 (E)-6-Methyl-2-(2-pyridin-2-yl-vinyl)-oyridin-3-ol; HCl salt 225-228 6-Styryl-pyridine-2-carbonitrile 92-93 2-[2-(2,6-Dichloro-phenyl)-vinyl]-6-methyl-pyridine 1ight yell. oil 6-Styryl-pyridine-2-carboxylic acid amide 141-142	2-[2-(2-Fluoro-phenyl)-vinyl]-pyridine	69-70
Acetic acid 6-[2-(4-chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl ester 130-131  2-[2-(4-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-ol 275-278 dec 6-[2-(4-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol 265-270 dec Acetic acid 6-methyl-2-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester 139-140  6-Methyl-2-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester 99-100  2-Methyl-6-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-ol 230-233 dec 2-methyl-6-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester 97-99  Acetic acid 2-[2-(3-chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester 97-99  Acetic acid 6-[2-(3-chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester 112-114  2-[2-(3-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-ol 232-235  6-[2-(3-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol 230-232  (2)-(6-Styryl-pyridin-2-yl)-methanol 69-70  (E)-(6-Styryl-pyridin-2-yl)-methanol 58-60  2.2-(1,2-Ethenediyl)bis[6-methyl]-pyridine 108-110  Dimethyl-[3-(6-methyl-2-styryl-pyridin-3-yloxy)-propyl]-amine;hydrochloride 136-139  salt  (E)-6-[2-(2-Pyridyl)vinyl]-2-picoline 56-57  2-Methyl-6-styryl-pyridine 1-oxide 156-159  (E)-6-Methyl-2-(2-pyridin-2-yl-vinyl)-pyridin-3-ol; HCl salt 225-228  6-Styryl-pyridine-2-carboxylic acid amide 141-142	2-[2-(2-Nitro-phenyl)-vinyl]-pyridine	97-99
2-[2-(4-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-ol         275-278 dec           6-[2-(4-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol         265-270 dec           Acetic acid 6-methyl-2-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester         139-140           6-Methyl-2-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester         190-195 dec           Acetic acid 2-methyl-6-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester         99-100           2-Methyl-6-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-ol         230-233 dec           Acetic acid 2-[2-(3-chloro-phenyl)-vinyl]-b-methyl-pyridin-3-yl ester         97-99           Acetic acid 6-[2-(3-chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl ester         112-114           2-[2-(3-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-ol         232-235           6-[2-(3-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol         230-232           (Z)-(6-Styryl-pyridin-2-yl)-methanol         69-70           (E)-(6-Styryl-pyridin-2-yl)-methanol         58-60           2.2-(1,2-Ethenediyl)bis[6-methyl]-pyridine         108-110           Dimethyl-[3-(6-methyl-2-styryl-pyridin-3-yloxy)-propyl]-amine;hydrochloride         136-139           salt         (E)-6-[2-(2-Pyridyl)vinyl]-2-picoline         56-57           2-Methyl-6-styryl-pyridine 1-oxide         102-103           2-Styryl-pyridine 1-oxide         156-159           (E)-6-Methyl-2-(2-pyridin-2-yl-vinyl)-pyridin-3-oi; HCl salt	Acetic acid 2-[2-(4-chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester	102-103
6-[2-(4-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol         265-270 dec           Acetic acid 6-methyl-2-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester         139-140           6-Methyl-2-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester         190-195 dec           Acetic acid 2-methyl-6-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester         99-100           2-Methyl-6-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-ol         230-233 dec           Acetic acid 2-[2-(3-chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester         97-99           Acetic acid 6-[2-(3-chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl ester         112-114           2-[2-(3-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-ol         232-235           6-[2-(3-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol         230-232           (Z)-(6-Styryl-pyridin-2-yl)-methanol         69-70           (E)-(6-Styryl-pyridin-2-yl)-methanol         58-60           2.2-(1,2-Ethenediyl)bis[6-methyl]-pyridine         103-110           Dimethyl-[3-(6-methyl-2-styryl-pyridin-3-yloxy)-propyl]-amine;hydrochloride         136-139           salt         (E)-6-[2-(2-Pyridyl)vinyl]-2-picoline         56-57           2-Methyl-6-styryl-pyridine 1-oxide         102-103           2-Styryl-pyridine 1-oxide         156-159           (E)-6-Methyl-2-(2-pyridin-2-yl-vinyl)-pyridin-3-ol; HCl salt         225-228           6-Styryl-pyridine-2-carbonitrile         1ight yell. oil<	Acetic acid 6-[2-(4-chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl ester	130-131
Acetic acid 6-methyl-2-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester 139-140 6-Methyl-2-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-ol 190-195 dec Acetic acid 2-methyl-6-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester 99-100 2-Methyl-6-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester 99-100 2-Methyl-6-[2-(3-chloro-phenyl)-vinyl]-pyridin-3-yl ester 97-99 Acetic acid 2-[2-(3-chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester 112-114 2-[2-(3-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-ol 232-235 6-[2-(3-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol 230-232 (Z)-(6-Styryl-pyridin-2-yl)-methanol 69-70 (E)-(6-Styryl-pyridin-2-yl)-methanol 58-60 2-2-(1,2-Ethenediyl)bis[6-methyl]-pyridine 108-110 Dimethyl-[3-(6-methyl-2-styryl-pyridin-3-yloxy)-propyl]-amine;hydrochloride salt (E)-6-[2-(2-Pyridyl)vinyl]-2-picoline 56-57 2-Methyl-6-styryl-pyridine 1-oxide 102-103 2-Styryl-pyridine 1-oxide 156-159 (E)-6-Methyl-2-(2-pyridin-2-yl-vinyl)-pyridin-3-ol 240-242 (Z)-6-Methyl-2-(2-pyridin-2-yl-vinyl)-pyridin-3-ol; HCl salt 225-228 6-Styryl-pyridine-2-carbonitrile 192-93 2-[2-(2,6-Dichloro-phenyl)-vinyl]-6-methyl-pyridine 1ight yell. oil 6-Styryl-pyridine-2-carboxylic acid amide 141-142	2-[2-(4-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-ol	275-278 dec
6-Methyl-2-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-ol 190-195 dec Acetic acid 2-methyl-6-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester 99-100  2-Methyl-6-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-ol 230-233 dec Acetic acid 2-[2-(3-chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester 97-99  Acetic acid 6-[2-(3-chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl ester 112-114  2-[2-(3-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-ol 232-235  6-[2-(3-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol 230-232  (Z)-(6-Styryl-pyridin-2-yl)-methanol 69-70  (E)-(6-Styryl-pyridin-2-yl)-methanol 58-60  2.2-(1,2-Ethenediyl)bis[6-methyl]-pyridine 108-110  Dimethyl-[3-(6-methyl-2-styryl-pyridin-3-yloxy)-propyl]-amine;hydrochloride salt  (E)-6-[2-(2-Pyridyl)vinyl]-2-picoline 56-57  2-Methyl-6-styryl-pyridine 1-oxide 102-103  2-Styryl-pyridine 1-oxide 156-159  (E)-6-Methyl-2-(2-pyridin-2-yl-vinyl)-pyridin-3-ol 240-242  (Z)-6-Methyl-2-(2-pyridin-2-yl-vinyl)-pyridin-3-oi; HCl salt 225-228  6-Styryl-pyridine-2-carbonitrile 92-93  2-[2-(2,6-Dichloro-phenyl)-vinyl]-6-methyl-pyridine light yell. oil 3-Methoxy-6-methyl-2-styryl-pyridine 1-0-2-carboxylic acid amide 141-142	6-[2-(4-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol	265-270 dec
Acetic acid 2-methyl-6-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester 99-100  2-Methyl-6-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-ol 230-233 dec  Acetic acid 2-[2-(3-chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester 97-99  Acetic acid 6-[2-(3-chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl ester 112-114  2-[2-(3-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-ol 232-235  6-[2-(3-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol 230-232  (Z)-(6-Styryl-pyridin-2-yl)-methanol 69-70  (E)-(6-Styryl-pyridin-2-yl)-methanol 58-60  2,2'-(1,2-Ethenediyl)bis[6-methyl]-pyridine 103-110  Dimethyl-[3-(6-methyl-2-styryl-pyridin-3-yloxy)-propyl]-amine;hydrochloride 36-139  salt  (E)-6-[2-(2-Pyridyl)vinyl]-2-picoline 56-57  2-Methyl-6-styryl-pyridine 1-oxide 102-103  2-Styryl-pyridine 1-oxide 156-159  (E)-6-Methyl-2-(2-pyridin-2-yl-vinyl)-pyridin-3-ol 240-242  (Z)-6-Methyl-2-(2-pyridin-2-yl-vinyl)-pyridin-3-oi; HCl salt 225-228  6-Styryl-pyridine-2-carbonitrile 92-93  2-[2-(2,6-Dichloro-phenyl)-vinyl]-6-methyl-pyridine light yell. oil 3-Methoxy-6-methyl-2-styryl-pyridine 2-carboxylic acid amide 141-142	Acetic acid 6-methyl-2-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester	139-140
2-Methyl-6-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-ol       230-233 dec         Acetic acid 2-[2-(3-chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester       97-99         Acetic acid 6-[2-(3-chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl ester       112-114         2-[2-(3-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-ol       232-235         6-[2-(3-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol       230-232         (Z)-(6-Styryl-pyridin-2-yl)-methanol       69-70         (E)-(6-Styryl-pyridin-2-yl)-methanol       58-60         2.2-(1,2-Ethenediyl)bis[6-methyl]-pyridine       108-110         Dimethyl-[3-(6-methyl-2-styryl-pyridin-3-yloxy)-propyl]-amine;hydrochloride       136-139         salt       (E)-6-[2-(2-Pyridyl)vinyl]-2-picoline       56-57         2-Methyl-6-styryl-pyridine 1-oxide       102-103         2-Styryl-pyridine 1-oxide       156-159         (E)-6-Methyl-2-(2-pyridin-2-yl-vinyl)-pyridin-3-ol       240-242         (Z)-6-Methyl-2-(2-pyridin-2-yl-vinyl)-pyridin-3-ol; HCl salt       225-228         6-Styryl-pyridine-2-carbonitrile       92-93         2-[2-(2,6-Dichloro-phenyl)-vinyl]-6-methyl-pyridine       light yell. oil         3-Methoxy-6-methyl-2-styryl-pyridine       light yell. oil         6-Styryl-pyridine-2-carboxylic acid amide       141-142	6-Methyl-2-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-ol	190-195 dec
Acetic acid 2-[2-(3-chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester         97-99           Acetic acid 6-[2-(3-chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl ester         112-114           2-[2-(3-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-ol         232-235           6-[2-(3-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol         230-232           (Z)-(6-Styryl-pyridin-2-yl)-methanol         69-70           (E)-(6-Styryl-pyridin-2-yl)-methanol         58-60           2.2'-(1,2-Ethenediyl)bis[6-methyl]-pyridine         108-110           Dimethyl-[3-(6-methyl-2-styryl-pyridin-3-yloxy)-propyl]-amine;hydrochloride         136-139           salt         (E)-6-[2-(2-Pyridyl)vinyl]-2-picoline         56-57           2-Methyl-6-styryl-pyridine 1-oxide         102-103           2-Styryl-pyridine 1-oxide         156-159           (E)-6-Methyl-2-(2-pyridin-2-yl-vinyl)-pyridin-3-ol         240-242           (Z)-6-Methyl-2-(2-pyridin-2-yl-vinyl)-pyridin-3-ol; HCl salt         225-228           6-Styryl-pyridine-2-carbonitrile         92-93           2-[2-(2,6-Dichloro-phenyl)-vinyl]-6-methyl-pyridine         light yell. oil           3-Methoxy-6-methyl-2-styryl-pyridine         light yell. oil           6-Styryl-pyridine-2-carboxylic acid amide         141-142	Acetic acid 2-methyl-6-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester	99-100
Acetic acid 6-[2-(3-chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl ester  2-[2-(3-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-ol 2-[2-(3-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol 2-[2-(3-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol (2)-(6-Styryl-pyridin-2-yl)-methanol (E)-(6-Styryl-pyridin-2-yl)-methanol 2-[2-(1,2-Ethenediyl)bis[6-methyl]-pyridine 103-110 Dimethyl-[3-(6-methyl-2-styryl-pyridin-3-yloxy)-propyl]-amine;hydrochloride salt (E)-6-[2-(2-Pyridyl)vinyl]-2-picoline 2-Methyl-6-styryl-pyridine 1-oxide 102-103 2-Styryl-pyridine 1-oxide 156-159 (E)-6-Methyl-2-(2-pyridin-2-yl-vinyl)-pyridin-3-ol 2-(2)-6-Methyl-2-(2-pyridin-2-yl-vinyl)-pyridin-3-oi; HCl salt 225-228 6-Styryl-pyridine-2-carbonitrile 92-93 2-[2-(2,6-Dichloro-phenyl)-vinyl]-6-methyl-pyridine 1ight yell. oil 3-Methoxy-6-methyl-2-styryl-pyridine	2-Methyl-6-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-ol	230-233 dec
2-[2-(3-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-ol       232-235         6-[2-(3-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol       230-232         (Z)-(6-Styryl-pyridin-2-yl)-methanol       69-70         (E)-(6-Styryl-pyridin-2-yl)-methanol       58-60         2,2'-(1,2-Ethenediyl)bis[6-methyl]-pyridine       108-110         Dimethyl-[3-(6-methyl-2-styryl-pyridin-3-yloxy)-propyl]-amine;hydrochloride       136-139         salt       36-57         2-Methyl-6-styryl-pyridine 1-oxide       102-103         2-Styryl-pyridine 1-oxide       156-159         (E)-6-Methyl-2-(2-pyridin-2-yl-vinyl)-pyridin-3-ol       240-242         (Z)-6-Methyl-2-(2-pyridin-2-yl-vinyl)-pyridin-3-oi; HCl salt       225-228         6-Styryl-pyridine-2-carbonitrile       92-93         2-[2-(2,6-Dichloro-phenyl)-vinyl]-6-methyl-pyridine       light yell. oil         3-Methoxy-6-methyl-2-styryl-pyridine       light yell. oil         6-Styryl-pyridine-2-carboxylic acid amide       141-142	Acetic acid 2-[2-(3-chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester	97-99
6-[2-(3-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol  (Z)-(6-Styryl-pyridin-2-yl)-methanol (E)-(6-Styryl-pyridin-2-yl)-methanol (E)-(6-Styryl-pyridin-2-yl)-methanol (E)-(6-Styryl-pyridin-2-yl)-methanol (E)-(1,2-Ethenediyl)bis[6-methyl]-pyridine (Dimethyl-[3-(6-methyl-2-styryl-pyridin-3-yloxy)-propyl]-amine;hydrochloride (E)-6-[2-(2-Pyridyl)vinyl]-2-picoline (E)-6-[2-(2-Pyridyl)vinyl]-2-picoline (E)-6-[2-(2-Pyridyl-pyridine 1-oxide (E)-6-Methyl-6-styryl-pyridine 1-oxide (E)-6-Methyl-2-(2-pyridin-2-yl-vinyl)-pyridin-3-ol (E)-6-Methyl-2-(2-pyridin-2-yl-vinyl)-pyridin-3-oi; HCl salt (Z)-6-Methyl-2-(2-pyridin-2-yl-vinyl)-pyridin-3-oi; HCl salt (Z)-6-Styryl-pyridine-2-carbonitrile (B)-(2-(2-1)-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Acetic acid 6-[2-(3-chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl ester	112-114
(Z)-(6-Styryl-pyridin-2-yl)-methanol       69-70         (E)-(6-Styryl-pyridin-2-yl)-methanol       58-60         2,2'-(1,2-Ethenediyl)bis[6-methyl]-pyridine       108-110         Dimethyl-[3-(6-methyl-2-styryl-pyridin-3-yloxy)-propyl]-amine;hydrochloride       136-139         salt       56-57         (E)-6-[2-(2-Pyridyl)vinyl]-2-picoline       56-57         2-Methyl-6-styryl-pyridine 1-oxide       102-103         2-Styryl-pyridine 1-oxide       156-159         (E)-6-Methyl-2-(2-pyridin-2-yl-vinyl)-pyridin-3-ol       240-242         (Z)-6-Methyl-2-(2-pyridin-2-yl-vinyl)-pyridin-3-ol; HCl salt       225-228         6-Styryl-pyridine-2-carbonitrile       92-93         2-[2-(2,6-Dichloro-phenyl)-vinyl]-6-methyl-pyridine       light yell. oil         3-Methoxy-6-methyl-2-styryl-pyridine       light yell. oil         6-Styryl-pyridine-2-carboxylic acid amide       141-142	2-[2-(3-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-ol	232-235
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2-[2-(3.5-Dimethylphenyl)-2-fluoro-vinyl]-6-methyl-pyridine  2-[2-(2,3-Dimethoxy-phenyl)-vinyl]-6-methyl-pyridine  2-[2-(2,3-Dichloro-phenyl)-vinyl]-6-methyl-pyridine  2-[2-(3-Chloro-phenyl)-1-methyl-vinyl]-pyridine  2-[2-(3-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl}-methanol  87-90  2-Methyl-6-[2-(3-trimethylsilanylethynyl-phenyl)-vinyl]-pyridine  2-[2-(3,4-Difluoro-phenyl)-vinyl]-6-methyl-pyridine  2-[2-(3,5-Difluoro-phenyl)-vinyl]-6-methyl-pyridine  2-[2-(3,5-Difluoro-phenyl)-vinyl]-6-methyl-pyridine  2-[2-(3,5-Difluoro-phenyl)-vinyl]-6-methyl-pyridine  ye!lowish oil	-[2-(3-Bromo-phenyl)-vinyl]-6-methyl-pyridine	58-59
2-[2-(2,3-Dimethoxy-phenyl)-vinyl]-6-methyl-pyridine colorless oil 2-[2-(2,3-Dichloro-phenyl)-vinyl]-6-methyl-pyridine 67-68 2-[2-(3-Chloro-phenyl)-1-methyl-vinyl]-pyridine colorless oil [2-[2-(2-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl}-methanol 87-90 2-Methyl-6-[2-(3-trimethylsilanylethynyl-phenyl)-vinyl]-pyridine yellowish oil 2-[2-(3,4-Difluoro-phenyl)-vinyl]-6-methyl-pyridine 61-62 2-[2-(3-Ethynyl-phenyl)-vinyl]-6-methyl-pyridine yellowish oil 2-[2-(3,5-Difluoro-phenyl)-vinyl]-6-methyl-pyridine yellowish oil	-[2-(3-Bromo-phenyl)-2-fluoro-vinyl]-6-methyl-pyridine	58-59
2-[2-(2,3-Dichloro-phenyl)-vinyl]-6-methyl-pyridine 67-68  2-[2-(3-Chloro-phenyl)-1-methyl-vinyl]-pyridine colorless oil  {2-[2-(2-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl}-methanol 87-90  2-Methyl-6-[2-(3-trimethylsilanylethynyl-phenyl)-vinyl]-pyridine yellowish oil  2-[2-(3,4-Difluoro-phenyl)-vinyl]-6-methyl-pyridine 61-62  2-[2-(3-Ethynyl-phenyl)-vinyl]-6-methyl-pyridine yellowish oil  2-[2-(3,5-Difluoro-phenyl)-vinyl]-6-methyl-pyridine yellowish oil	-[2-(3,5-Dimethylphenyl)-2-fluoro-vinyl]-6-methyl-pyridine	70-72
2-[2-(3-Chloro-phenyl)-1-methyl-vinyl]-pyridine colorless oil  {2-[2-(2-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl}-methanol 87-90  2-Methyl-6-[2-(3-trimethylsilanylethynyl-phenyl)-vinyl]-pyridine yellowish oil  2-[2-(3,4-Difluoro-phenyl)-vinyl]-6-methyl-pyridine 61-62  2-[2-(3-Ethynyl-phenyl)-vinyl]-6-methyl-pyridine yellowish oil  2-[2-(3,5-Difluoro-phenyl)-vinyl]-6-methyl-pyridine yellowish oil	-[2-(2,3-Dimethoxy-phenyl)-vinyl]-6-methyl-pyridine	colorless oil
\[ \{2-[2-(2-Ch\oro-phenyl)-vinyl]-6-methyl-pyridin-3-yl\-methanol \]  2-Methyl-6-[2-(3-trimethylsilanylethynyl-phenyl)-vinyl]-pyridine \]  2-[2-(3,4-Difluoro-phenyl)-vinyl]-6-methyl-pyridine \]  2-[2-(3-Ethynyl-phenyl)-vinyl]-6-methyl-pyridine \]  2-[2-(3-Ethynyl-phenyl)-vinyl]-6-methyl-pyridine \]  2-[2-(3,5-Difluoro-phenyl)-vinyl]-6-methyl-pyridine \]  yellowish oil	-[2-(2,3-Dichloro-phenyl)-vinyl]-6-methyl-pyridine	67-68
2-Methyl-6-[2-(3-trimethylsilanylethynyl-phenyl)-vinyl]-pyridine yellowish oil 2-[2-(3,4-Difluoro-phenyl)-vinyl]-6-methyl-pyridine 61-62 2-[2-(3-Ethynyl-phenyl)-vinyl]-6-methyl-pyridine yellowish oil 2-[2-(3,5-Difluoro-phenyl)-vinyl]-6-methyl-pyridine yellowish oil	-[2-(3-Chloro-phenyl)-1-methyl-vinyl]-pyridine	colorless oil
2-[2-(3,4-Difluoro-phenyl)-vinyl]-6-methyl-pyridine 61-62 2-[2-(3-Ethynyl-phenyl)-vinyl]-6-methyl-pyridine yellowish oil 2-[2-(3,5-Difluoro-phenyl)-vinyl]-6-methyl-pyridine yellowish oil	2-[2-(2-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl}-methanol	87-90
2-[2-(3-Ethynyl-phenyl)-vinyl]-6-methyl-pyridine yellowish oil 2-[2-(3,5-Difluoro-phenyl)-vinyl]-6-methyl-pyridine yellowish oil	-Methyl-6-[2-(3-trimethylsilanylethynyl-phenyl)-vinyl]-pyridine	yellowish oil
2-[2-(3,5-Difluoro-phenyl)-vinyl]-6-methyl-pyridine yellowish oil	-[2-(3,4-Difluoro-phenyl)-vinyl]-6-methyl-pyridine	61-62
	-[2-(3-Ethynyl-phenyl)-vinyl]-6-methyl-pyridine	ye!lowish oil
2-[2-(3-Fluoro-phenyl)-vinyl]-6-methyl-pyridine	-[2-(3,5-Difluoro-phenyl)-vinyl]-6-methyl-pyridine	ye!lowish oil
	-[2-(3-Fluoro-phenyl)-vinyl]-6-methyl-pyridine	yellowish oil
2-[2-(3-Methoxy-phenyl)-vinyl]-6-methyl-pyridine yellowish oil	-[2-(3-Methoxy-phenyl)-vinyl]-6-methyl-pyridine	yellowish oil
2-Methyl-6-[2-(3-phenoxy-phenyl)-vinyl]-pyridine yellowish oil	-Methyl-6-[2-(3-phenoxy-phenyl)-vinyl]-pyridine	yellowish oil
2-[2-(3-Benzyloxy-phenyl)-vinyl]-6-methyl-pyridine 68-69	1, :	68-69
2-[2-(2,5-Difluoro-phenyl)-vinyl]-6-methyl-pyridine 44-45		44-45
{2-[2-(2-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-acetic acid 230-233		230-233
(3-{2-[2-(3-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-propyl)-dimethyl- 203-205		203-205
amine		
[6-[2-(2-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl}-methanol 131-133		131-133
2-(3-Bromo-phenylethynyl)-6-methyl-pyridine 61-63		61-63
2-Methyl-6-{2-[3-(3-trifluoromethyl-phenoxy)-phenyl]-vinyl}-pyridine yeilcwish oil	,	
2-[2-(3,5-Dimethoxy-phenyl)-vinyl]-6-methyl-pyridine 43-45		1
2-[2-(3-Chloro-phenyl)-vinyl]-3-methoxy-6-methyl-pyridine 52-53		
Acetic acid 4-bromo-2-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl ester yellowish oil		
Acetic acid 3-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl ester yellowish oil		

2-[2-(3.4-Dichloro-phenyl)-vinyl]-6-methyl-pyridine	73-75
4-Bromo-2-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenol	246-248
Acetic acid 2-[2-(3,5-dichloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester	156-158
Acetic acid 6-[2-(3,5-dichloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl ester	159-161
Acetic acid 2-[2-(3.5-dichloro-phenyl)-vinyl]-pyridin-3-yl ester	154-156
2-Methyl-6-(2-naphthalen-1-yl-vinyl)-pyridine	yellowish oil
2-[2-(2,3-Dihydro-benzo[1,4]dioxin-6-yl)-vinyl]-6-methyl-pyridine	99-101
2-Methyl-6-(2-naphthalen-2-yl-vinyl)-pyridine	97-99
2-Methyl-6-(2-m-tolyl-vinyl)-pyridine	yellowish oil
2-{2-[3-(3,5-Dichloro-phenoxy)-phenyl]-vinyl}-6-methyl-pyridine	yellowish gum
2-[2-(3-Chloro-phenyl)-propenyl]-6-methyl-pyridine	yellowish oil
2-[2-(2.3-Dihydro-benzofuran-5-yl)-vinyl]-6-methyl-pyridine	28-90
2-[2-(4-Fluoro-phenyl)-vinyl]-6-methyl-pyridine	50-51
2-Methyl-6-(2-o-tolyl-vinyl) pyridine	yellowish oil
2-Methyl-6-(2-p-tolyl-vinyl)-pyridine	85-86
2-Methyl-6-(2-p-tolyl-propenyl)-pyridine	yellowish oil
3-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenylamine	126-129
(2,3-Dimethoxy-7-nitro-quinoxalin-5-ylmethyl)-{3-[2-(6-methyl-pyridin-2-yl)-	pale orange foam
vinyl]-phenyl}-amine	
N-{3-[2-(6-Methyl-pyridin-2-yl)-vinyl}-phenyl}-acetamide	147
N-{3-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenyl}-2-phenyl-acetamide	156
2,2-Dimethyl-N-{3-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl}-propionamide	166-168
Thiophene-2-carboxylic acid {3-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl}-	197 dec
amide	
Cyclohexanecarboxylic acid {3-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl}-	215
amide	
1-(4-Bromo-phenyl)-3-{3-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl}-urea	197 dec
2-Methyl-6-[2-(4-nitro-phenyl)-vinyl]-pyridine	134-135
4-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenylamine	147-148
2-[2-(3,5-Dichloro-phenyl)-vinyl]-6-methyl-pyridin-3-ol	218-220
6-[2-(3,5-Dichloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol	286 dec
2-[2-(3,5-Dichloro-phenyl)-vinyl]-pyridin-3-ol	240-242
2-[2-(6-Chloro-benzo[1,3]dioxol-5-yl)-vinyl]-6-methyl-pyridine	131-132
2-[2-(2,3-Difluoro-phenyl)-vinyl]-6-methyl-pyridine	55-56
2-[2-(3,4-Dichloro-phenyl)-propenyl]-6-methyl-pyridine	yellowish oil

	2-[2-(3,5-Bis-trifluoromethyl-phenyl)-vinyl]-6-methyl-pyridine	25-86
$\int_{-1}^{1}$	Acetic acid 2-methoxy-6-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl ester	yellowish oil
	2-Methoxy-6-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenol	118-120
	2-Methyl-6-[2-(2,3,6-trifluoro-phenyl)-vinyl]-pyridine	59-62
Γ	2-[2-(4-Fluoro-3-trifluoromethyl-phenyl)-vinyl]-6-methyl-pyridine	yellowish oil
Γ	2-Methyl-6-(2,3,6-trifluoro-phenylethynyl)-pyridine	93-94
Γ	Acetic acid 4-chloro-2-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl ester	yellowish oil
	Acetic acid 2,6-ditertbutyl-4-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl ester	127-128
	3-(6-Methyl-pyridin-2-ylethynyl)-benzamide	187-189
٠,	Acetic acid 4-bromo-2-methoxy-6-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl	151-153
⊢	ester	
	2-(6-Chloro-benzo[1,3]dioxol-5-ylethynyl)-6-methyl-pyridine	105-106 light brown crystals
T	2-[2-(3,5-Dichloro-phenyl)-vinyl]-3-methoxy-6-methyl-pyridine	127-129
Г	2-[2-(3,5-Dichloro-phenyl)-vinyl]-3-methoxy-pyridine	111-113
ſ	5-Azido-2-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenol	143 dec
Ţ	2-[2-(Pyridin-3-yl)ethynyl]-6-methyl-pyridine	light yellow crystals
		60-61
Ī	N-{3-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenyl}-succinamic acid	212-213
Ī	1-tertButyl-3-{3-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl}-urea	191-192
T	5-({3-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenylamino}-methyl)-7-nitro-1,4-	250 dec
	dihydro-quinoxaline-2,3-dione	
ſ	Tetrahydro-furan-2-carboxylic acid {3-[2-(6-methyl-pyridin-2-yl)-vinyl]-	160-161
	phenyl}-amide	
	(1-{3-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenylcarbamoyl}-2-phenyl-ethyl)-	colorless foam
	carbamic acid tertbutyl ester	
- [	({3-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenylcarbamoyl}-methyl)-carbamic	colorless foam
	acid tertbutyl ester	
	Diethyl-{3-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl}-amine	217 dec
	Ethyl-{3-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl}-amine	225 dec
-	Ethyl-{3-[2-(6-methyl-pyridin-2-yl)-vinyl}-phenyl}-amine	183 dec
	2-(2-Ethoxy-3,6-difluoro-phenylethynyl)-6-methyl-pyridine	yellowish oii
	2-(3,5-Difluoro-phenylethynyl)-6-methyl-pyridine	yellowish oil
	2-(3-Fluoro-phenylethynyl)-6-methyl-pyridine	26-28
	2-[2-(3,5-Dimethyl-phenyl)-vinyl]-6-methyl-pyridine	56-57
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2-[2-(3,4-Dimethoxy-phenyl)-vinyl]-6-methyl-pyridine	55-56
2-(3,4-Dichloro-phenylethynyl)-6-methyl-pyridine	73-74
2-(4-Ethoxy-3-trifluoromethyl-phenylethynyl)-6-methyl-pvridine	61-62
2-(4-Fluoro-phenylethynyl)-6-methyl-pyridine	98-100
2-Methyl-6otolylethynyl-pyridine	yellowish oil
2-(3,4-Difluoro-phenylethynyl)-6-methyl-pyridine	65-68
2-Methyl-6-[2-(2,3,5-trichloro-phenyl)-vinylj-pyridine	80-82
1-[3-(6-Methyl-pyridin-2-ylethynyl)-phenyl]-ethanone	76-78
2-Methyl-6-(3-trifluoromethyl-phenyiethynyl)-pyridine	35-37
2-Methyl-6-(3-nitro-phenylethynyl)-pyridine	99.5-102.5
6-[2-(3,5-Dichloro-phenyl)-vinyl]-3-methoxy-2-methyl-pyridine	98-100
{2-[2-(2-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl}-morpholin-4-yl-methanone	123-125
(3-{2-[2-(3,5-Dichloro-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-propyl)-dimethyl-amine hydrochloride salt	207-210
N-{4-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenyl}-succinamic acid	201 dec
N-{4-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenyl}-2-phenyl-acetamide  ({4-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenylcarbamoyl}-methyl)-carbamic	236-237 dec 144-145 dec
acid .tertbutyl ester	144-145 dec
	209 dec
{3-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenyl}-thiophen-2-ylmethyl-amine	161-162
hydrochloride salt	101-102
Cyclonexylmethyl-{3-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl}-amine	178-179 dec
hydrochloride salt	
{4-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenyl}-thiophen-2-vlmethyl-amine	100
Cyclohexylmethyl-{4-[2-(6-methyl-pyridin-2-vl)-vinyl}-phenyl}-amine	106-107
2-Amino-N-{3-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl}-3-phenyl-	102
propionamide	
2-Amino-N-{3-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl}-acetamide	105
2-Amino-N-{4-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl}-acetamide	217-219 dec
1-[1-({2-[2-(2-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-acetyl)-	amorphous foam
piperidin-4-yl]-imidazolidin-2-one	
(1-{4-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenylamino}-ethyl)-phosphonic acid	orange amorphous
dimethyl ester	solid
2-[2-(2-Methoxy-phenyl)-vinyl]-6-methyl-pyridine	129-130

2-(3-Ethoxy-4-fluoro-phenylethynyl)-6-methyl-pyridine	82-83
2-(3-Chloro-phenylethynyl)-6-methyl-pyridine	57-59
1-(3-Pyridin-2-ylethynyl-phenyl)-ethanone	48-51
4-Chloro-2-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenol	256-260
4-Bromo-2-methoxy-6-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenol	121-123
2-Methyl-6mtolylethynyl-pyridine	57-58
2-(2,5-Difluoro-phenylethynyl)-6-methyl-pyridine	49-50
2-(3,5-Dimethyl-phenylethynyl)-6-methyl-pyridine	yellowish oil
2-[2-(3,5-Dibromo-phenyl)-vinyl]-6-methyl-pyridine	68-70
2-Methyl-6-[2-(pyrimidin-5-yl)-ethynyl]-pyridine	110-112
(2-{2-[2-(3-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-ethyl)-dimethyl-	165-167
amine	
Acetic acid 1-{4-[2-(6-methyl-pyridin-2-yi)-vinyl]-phenyl}-ethyl ester	
3-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenol	250-251
3-(6-Methyl-pyridin-2-ylethynyl)-phenylamine	129-130
N-[3-(6-Methyl-pyridin-2-ylethynyl)-phenyl]-2-phenyl-acetamide	133-135 dec
Thiophene-2-carboxylic acid [3-(6-methyl-pyridin-2-ylethynyl)-phenyl]-	156-157 dec
amide	
2-Methyl-6-(thiophen-2-ylethynyl)-pyridine	34-36
3-(6-Methyl-pyridin-2-ylethynyl)-benzoic acid ethyl ester	56-58
2-(3,5-Dibromo-phenylethynyl)-6-methyl-pyridine	100:101
{2-[2-(2-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-ylmethyl}-dimethyl-amine	227-229 dec
(3-{6-[2-(3-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yloxy}-propyl)-dimethyl-	184-186
5-Azido-4-iodo-2-[2-(6-methyl-pyridin-2-yl)-vinyl]-pnenol	red glass
2.6-Di-tert-butyl-4-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenol	126-127
1-{4-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenyl}-ethanol	97-99
2-Methyl-6-[2-(pyrimidin-2-yl)-ethynyl]-pyridine	144-145
[3-(6-Methyl-pyridin-2-ylethynyl)-phenyl]-phenyl-methanone	99-100
6-(6-Methyl-pyridin-2-ylethynyl)-3,4-dihydro-1H-quinolin-2-one	189-191
2-(3-{2-[2-(3-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-propyl)-	101-103
isoindole-1.3-dione	
3-Methoxy-6-methyl-2mtolylethynyl-pyridine	brown oil
Acetic acid 2-[2-(6-methyl-pyridin-2-yl)-vinyl]-4-nitro-phenyl ester	129-131
	1
6-(6-Methyl-pyridin-2-ylethynyl)-indan-1-one	160-165

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N-Methyl-N-(3-{4-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenoxy}-propyl)-	62-70
acetamide	
2-[2-(3,5-Bis-trifluoromethyl-phenyl)-1-ethoxy-vinyl]-6-methyl-pyridine	yellow oil
Acetic acid 2-phenylethynyl-pyridin-3-yl ester	brown oil
Acetic acid 6-methyl-2mtolylethynyl-pyridin-3-yl ester	brown oil
Acetic acid 4-[2-(6-methyl-pyridin-2-yl)-vinyl]-2-nitro-phenyl ester	91-93
2-[2-(6-Methyl-pyridin-2-yl)-vinyl]-4-nitro-phenol	275 dec
Dimethyl-[3-(2-phenylethynyl-pyridin-3-yloxy)-propyl]-amine	yellowish oil
Dimethyl-(3-{4-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenoxy}-propyl)-amine	240-243
1-{4-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenyl}-ethanone	56-58
2-(3-Fluoro-phenylethynyl)-quinoline	81-83
Acetic acid 2-methyl-6-styryl-pyridin-3-yl ester	93-96
4-[2-(6-Methyl-pyridin-2-yl)-vinyl]-2-nitro-phenol	141-143
3-Ethoxy-4-[2-(6-methyl-pyridin-2-yl)-vinyl]-2-nitro-phenol	175-178 dec
4-(6-Methyl-pyridin-2-ylethynyl)-2-nitro-phenol	184-187 dec
Acetic acid 2-[2-(6-methyl-pyridin-2-yl)-vinyl]-6-nitro-phenyl ester	105-110 dec
Dimethyl-[3-(6-methyl-2-phenylethynyl-pyridin-3-yloxy)-propyl]-amine	yellow gum
2-Azido-4-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenol	155-157 dec
Dimethyl-[3-(6-methyl-2mtolylethynyl-pyridin-3-yloxy)-propyl]-amine	yellowish oil
2-(3-Methanesulfonyl-phenylethynyl)-6-methyl-pyridine	108-110 dec
3-{2-[2-(3-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-propylamine	186-189
4-AzidoN(3-{2-[2-(3-chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-	99-102 dec
propyl)-2-hydroxy-benzamide	
3-[3-(3-Dimethylamino-propoxy)-6-methyl-pyridin-2-ylethynyl]-benzonitrile	yellow gum
5-(6-Methyl-pyridin-2-ylethynyl)-indan-1-one	133-134
2-Methyl-6-(2,3,5-trichloro-phenylethynyl)-pyridine	112-114
2-[2-(6-methyl-pyridin-3-yl)ethynyl]-6-methyl-pyridine	118-119
Dimethyl-{3-[6-methyl-2-(3-trifluoromethyl-phenylethynyl)-pyridin-3-yloxy}-	yellow gum
propyl}-amine	
2-[2-(6-methyl-pyridin-3-yl)ethynyl]-3-methoxy 6-methyl-pyridine	198-199
hydrechloride salt	
2-Methyl-6-(5,6,7,8-tetrahydro-naphthalen-2-ylethynyl)-pyridine	50-51
3-[2-(3-Chloro-phenylethynyl)-6-methyl-pyridin-3-yloxy]-propylamine	151-153
(3-{4-Bromo-2-methoxy-6-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenoxy}-propyl)-	211-215
dimethyl-amine;	

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[6-(3-Fluoro-phenylethynyl)-pyridin-2-yl]-dimethyl-amine	brown oil
6'-(3-Fluoro-phenylethynyl)-3,4,5,6-tetrahydro-2.H[1,2']bipyridinyl	brown gum
{3-[2-(3-Chloro-phenylethynyl)-6-methyl-pyridin-3-yloxy]-propyl}-dimethyl-amine	158-160
4-AzidoN{3-[2-(3-chloro-phenylethynyl)-6-methyl-pyridin-3-yloxy]-	161-163 dec
propyl}-2-hydroxy-benzamide	
1-[3-(6-Methyl-pyridin-2-ylethynyl)-phenyl]-1H-[1,2,4]triazole-3-carboxylic	105-110 dec
acid ethyl ester	
1-[3-(6-Methyl-2-phenylethynyl-pyridin-3-yloxy)-propyl]-piperidin-3-ol	108-109
2-Ethynyl-6-(3-fluoro-phenylethynyl)-pyridine	89-90
3-Methyl-6-(6-methyl-pyridin-2-ylethynyl)-3H-benzooxazol-2-one	172-174
1-[3-(6-Methyl-pyridin-2-ylethynyl)-phenyl]-1H-[1,2,4]triazole-3-carboxylic acid dimethylamide	154-157
1-[3-(6-Methyl-2-phenylethynyl-pyridin-3-yloxy)-propyl]-piperidin-4-ol	amorphous white solid
5-(6-Methyl-pyridin-2-ylethynyl)-2-nitro-phenol	150-151 dec
5-[2-Bromo-2-(6-methyl-pyridin-2-yl)-vinyl]-2-nitro-phenol	158-159
5-[2-(6-Methyl-pyridin-2-yl)-E-vinyl]-2-nitro-phenol	171-173
5-[2-(6-Methyl-pyridin-2-yl)-Z-vinyl]-2-nitro-phenol	108-110
4-Azido-2-hydroxyN[3-(6-methyl-pyridin-2-ylethynyl)-phenyl]-benzamide	180-182 dec
5-(3-Dimethylamino-propoxy)-6-phenylethynyl-pyridine-2-carboxylic acid ethyl ester	160-162
6-Methyl-2-styryl-pyrimidin-4-ol	221-225
2-Ethyl-6-(3-fluoro-phenylethynyl)-pyridine	brown oil
2-(3,5-Dichloro-phenylethynyl)-6-methyl-pyridine	74-76
2-Methyl-6-(3-trifluoromethoxy-phenylethynyl)-pyridine	<30; brown crystals
2-Methyl-6-(3-[1,2,4]triazol-1-yl-phenylethynyl)-pyridine	128-130
4-(6-Methyl-pyridin-2-ylethynyl)-phthalonitrile	138-140
2-Methyl-6-{2-[3-(1.Htetrazol-5-yl)-phenyl]-vinyl}-pyridine; compound with	234-240
formic acid	
3-[2-(3,5-Dichloro-phenylethynyl)-6-methyl-pyridin-3-yloxy]-propylamine	97-100
[3-[2-(3,5-Dichloro-phenylethynyl)-6-methyl-pyridin-3-yloxy]-propyl}-	171-173
dimethyl-amine	
2-(3,5-Dimethyl-phenylethynyl)-3-methoxy-6-methyl-pyridine	yellowish oil
2-[2-(3-Fluoro-phenyl)-vinyl]-6-methyl-pyridin-3-ol	251-253 Dec.

	<del>,</del>
6-(3-Fluoro-phenylethynyl)-2-methyl-nicotinic acid ethyl ester	84-86
2-Azido-5-(6-methyl-pyridin-2-vlethynyl)-phenol	153-155 dec
6-(3,4-Dimethoxy-phenylethynyl)-5-(3-dimethylamino-propoxy)-pyridine-2-	149-152
carboxylic acid ethyl ester	
2-(4-Methoxy-3-trifluoromethyl-phenylethynyl)-6-methyl-pyridine	56-87
2-(3-Fluoro-phenylethynyl)-6-methoxy-pyridine	brown oil
2-(3-Fluoro-phenylethynyl)-5-methyl-pyridine	74-76
6-(3,5-Dichloro-phenylethynyl)-5-(3-dimethylamino-propoxy)-pyridine-2-	195-198
carboxylic acid ethyl ester	
5-(3-Dimethylamino-propoxy)-6-(3,5-dimethyl-phenylethynyl)-pyridine-2-	187-190
carboxylic acid ethyl ester	
6-(3-Fluoro-phenylethynyl)-2-methyl-nicotinic acid	173-175
[6-(3-Fluoro-phenylethynyl)-2-methyl-pyridin-3-yl]-methanol	116-118
[4-(4-Fluoro-benzoyl)-piperidin-1-yl]-[6-(3-fluoro-phenylethynyl)-2-methyl	138-140
pyridin-3-yl]-methanone	
2-(3-Fluoro-phenylethynyl)-6-methyl-nicotinic acid ethyl ester	brown oil
2-(3-Fluoro-phenylethynyl)-4,6-dimethyl-pyridine	brown oil
6-(3-Fluoro-phenylethynyl)N(5-methoxy-indan-2-ylmethyl)-2-methyl-	157-159
nicotinamide	<u> </u>
{[6-(3-Fluoro-phenylethynyl)-2-methyl-pyridine-3-carbonyl]-amino}-phenyl-	133-135
acetic acid methyl ester	
2-Methyl-6-(5-methyl-thiophen-2-ylethynyl)-pyridine	58-59
2-Methyl-6-(2,3,5-trimethyl-phenylethynyl)-pyridine	brown oil
3-[2-[2-(3-Fluoro-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-propan-1-ol	86-88
[6-(3-Fluoro-phenylethynyl)-2-methyl-pyridin-3-ylmethyl]-dimethyl-amine	220-222
2,2-Dimethyl-propionic acid 3-[2-(3-fluoro-phenylethynyl)-6-methyl-pyridin-	yellowish oil
3-yloxy]-propyl ester	,
2-Azido-4-iodo-5-(6-methyl-pyridin-2-ylethynyl)-phenol	140 dec
6-Azido-2.4-diiodo-3-(6-methyl-pyridin-2-ylethynyl)-phenol	162 dec
4-Azido-2-hydroxy-5-iodoN[3-(6-methyl-pyridin-2-ylethynyl)-phenyl]-	185 dec
benzamide	
Acetic acid 3-acetoxymethyl-5-(6-methyl-pyridin-2-ylethynyl)-benzyl ester	brown oil
(Benzyl-{[2-(3-fluoro-phenylethynyl)-6-methyl-pyridin-3-yloxy]-acetyl}-	brown oil
amino)-acetic acid ethyl ester	
2-[2-(3-Fluoro-phenyl)-vinyl]-6-methyl-isonicotinic acid ethyl ester	76-77

	1
3-[2-(3-Fluoro-phenylethynyl)-6-methyl-pvridin-3-yloxy]-propan-1-ol	72-74
[3-Hydroxymethyl-5-(6-methyl-pyridin-2-ylethynyl)-phenyl]-methanol	115-117
(3-{2-[2-(3,5-Dimethyl-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-propyl)-	yellowish gum
dimethyl-amine	1
[4-(4-Fluoro-benzoyl)-piperidin-1-yl]-{6-[2-(3-fluoro-phenyl)-vinyl]-2-methyl-	156-158
pyridin-3-yl}-methanone	
2-[2-(3-Fluoro-phenyl)-vinyl]-6-methyl-isonicotinic acid	245-248
[6-[2-(2-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl}-[4-(4-fluoro-benzoyl)-	109-112
piperidin-1-yl]-methanone	
2-(3-Ethynyl-phenylethynyl)-6-methyl-pyridine	48-49
(3-{2-[2-(2,6-Dichloro-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-propyl)-	207-210
dimethyl-amine hydrochloride salt	101 100
(3-{2-[2-(2,3-Dichloro-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-propyl)-	161-169
dimethyl-amine hydrochloride salt	
4-[6-(3-Fluoro-phenylethynyl)-2-methyl-pyridine-3-carbonyl]-piperazine-1-	97-99
carboxylic acid .tert -butyl ester	
[6-(3-Fluoro-phenylethynyl)-2-methyl-pyridin-3-yl]-piperazin-1-yl-methanone	250-252 dec
[4-(4-Azido-2-hydroxy-benzoyl)-piperazin-1-yl]-[6-(3-fluoro-phenylethynyl)-	186-188 dec
2-methyl-pyridin-3-yl]-methanone	
(3-{2-[2-(2,4-Dichloro-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-propyl)-	170-176
dimethyl-amine hydrochloride salt	
2-(3-Fluoro-phenylethynyl)-6-methyl-isonicotinic acid ethyl ester	89-91
2-(3-Fluoro-phenylethynyl)-6-methyl-isonicotinic acid .tertbutyl ester	94-96
2-(3-Fluoro-phenylethynyl)-6-methyl-isonicotinic acid	231 dec
[2-(3-Fluoro-phenylethynyl)-6-methyl-pyridin-4-yl]-methanol	143-146
[4-(4-Fluoro-benzoyl)-piperidin-1-yl]-[2-(3-fluoro-phenylethynyl)-6-methyl-	156-158
pyridin-4-yl]-methanone	
3-Allyloxy-2-[2-(3,5-dichloro-phenyl)-vinyl]-6-methyl-pyridine	105-106
[2-(3-Fluoro-phenylethynyl)-6-methyl-pyridin-4-yl]-morpholin-4-yl-	114-116
methanone	
Acetic acid 3-(6-methyl-pyridin-2-ylethynyl)-benzyl ester	brown cil
[2-(3-Fluoro-phenylethynyl)-6-methyl-pyridin-4-ylmethyl]-dimethyl-amine	209-212
(3-{2-[2-(3,5-Dichloro-phenyl)-propenyl]-6-methyl-pyridin-3-yloxy}-propyl)-	182-184
dimethyl-amine hydrochloride salt	
2-(3-Fluoro-phenylethynyl)-3-methoxy-6-methyl-pyridine	yellowish oil

(3-{2-{2-(3,5-Dichloro-phenyl)-vinyl}-pyridin-3-yloxy}-propyl)-dimethyl-amine hydrochloride salt	171-174
(4-Azido-2-hydroxy-5-iodo-phenyl)-{4-[6-(3-fluoro-phenylethynyl)-2-methyl-pyridine-3-carbonyl]-piperazin-1-yl}-methanone	195-200 dec
4-AzidoN{3-[2-(3-chloro-phenylethynyl)-6-methyl-pyridin-3-yloxy]-	142-150 dec
propyl}-2-hydroxy-5-iodo-benzamide	100-102
4-(2-Pyridin-2-yl-vinyl)-benzoic acid ethyl ester (3-{2-[2-(4-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-propyl)-dimethyl-amine hydrochloride salt	159-171
[3-(6-Methyl-pyridin-2-ylethynyl)-phenyl]-methanol	43-45
6-(3-Fluoro-phenylethynyl)-nicotinic acid .tertbutyl ester	96-98
(3-{2-[2-(3,4-Dichloro-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-propyl)-dimethyl-amine hydrochloride salt	174-177
2-(1-Bromo-2-phenyl-vinyl)-4-methyl-pyrimidine	yellow oil
6-(3-Fluoro-phenylethynyl)-nicotinic acid	223 dec.
[4-(4-Fluoro-benzoyl)-piperidin-1-yl]-[6-(3-fluoro-phenylethynyl)-pyridin-3-yl]-methanone	136.0-139.0
2-(2tertButoxy-3,6-difluoro-phenylethynyl)-6-methyl-pyridine	72.0-74.0
2-Methyl-6-[2-(2,4,5-trifluoro-phenyl)-vinyl]-pyridine	74-76
2-Methyl-6-[2-(2,3,4-trifluoro-phenyl)-vinyl]-pyridine	79-82
3-(6-Methyl-pyridin-2-vlethynyl)-phenol	142-144
2-Methyl-6-[2-(3,4,5-trifluoro-phenyl)-vinyl]-pyridine	74-76
2-(3-Methoxy-phenylethynyl)-6-methyl-pyridine	55-57
2-Methyl-6-(2,3,4-trifluoro-phenylethynyl)-pyridine	104-106

(dec = decomposition)

#### Claims:

- 1. A 2-arylalkenyl-, 2-heteroarylalkenyl-, 2-arylalkynyl-, 2-heteroarylalkynyl-, 2-arylazoand 2-heteroarylazo- pyridine or a pharmaceutically acceptable salt thereof, for use in the treatment of disorders associated with irregularities of the glutamatergic signal transmission, and of nervous system disorders mediated full or in part by mGluR5.
- 2. A 2-arylalkenyl-, 2-heteroarylalkenyl-, 2-arylalkynyl-, 2-heteroarylalkynyl-, 2-arylazoand 2-heteroarylazo- pyridine or a pharmaceutically acceptable salt thereof, for use in the treatment of epilepsy, cerebral ischemia, ischemic diseases of the eye, muscle spasms, convulsions, pain, acute, traumatic and chronic degenerative processes of the nervous system and psychiatric diseases.
- 3. A compound of formula I

$$R_{2} \xrightarrow{R_{3}} R_{4}$$

$$X - R_{5} \qquad (I),$$

#### wherein

R<sub>1</sub> denotes hydrogen, lower alkyl, hydroxy-lower alkyl, lower alkyl-amino, piperidino, carboxy, esterified carboxy, amidated carboxy, unsubstituted or lower alkyl-, lower alkoxy-, halo- and/or trifluoromethyl-substituted N-lower-alkyl-N-phenylcarbamoyl, lower alkoxy, halo-lower alkyl or halo-lower alkoxy,

R<sub>2</sub> denotes hydrogen, lower alkyl, carboxy, esterified carboxy, amidated carboxy, hydroxy-lower alkyl, hydroxy, lower alkoxy or lower alkanoyloxy, 4-(4-fluoro-benzoyl)-piperidin-1-yl-carboxy, 4-t.-butyloxycarbonyl-piperazin-1-yl-carboxy, 4-(4-azido-2-hydroxybenzoyl)-piperazin-1-yl-carboxy or 4-(4-azido-2-hydroxy-3-iodo-benzoyl)-piperazin-1-yl-carboxy,

R<sub>3</sub> represents hydrogen, lower alkyl, carboxy, lower alkoxy-carbonyl, lower alkyl-carbamoyl, hydroxy- lower alkyl, di- lower alkyl- aminomethyl, morpholinocarbonyl or 4-(4-fluoro-benzoyl)-piperidin-1-yl-carboxy,

R<sub>4</sub> represents hydrogen, lower alkyl, hydroxy, hydroxy-lower alkyl, amino-lower alkyl, lower alkylamino-lower alkyl, di-lower alkylamino-lower alkyl, unsubstituted or hydroxy-substituted lower alkyleneamino-lower alkyl, lower alkoxy, lower alkanoyloxy, amino-lower alkoxy, lower alkylamino-lower alkoxy, di-lower alkylamino-lower alkoxy,

phthalimido-lower alkoxy, unsubstituted or hydroxy- or 2-oxo-imidazolidin-1-ylsubstituted lower alkyleneamino-lower alkoxy, carboxy, esterified or amidated carboxy, carboxy-lower-alkoxy or esterified carboxy-lower-alkoxy, X represents an optionally halo-substituted lower alkenylene or alkynylene group bonded via vicinal unsaturated carbon atoms or an azo (-N=N-) group, and R<sub>5</sub> denotes an aromatic or heteroaromatic group which is unsubstituted or substituted by one or more substituents selected from lower alkyl, halo, halo-lower alkyl, halolower alkoxy, lower alkenyl, lower alkynyl, unsubstituted or lower alkyl-, lower alkoxy-, halo- and/or trifluoromethyl-substituted phenyl, unsubstituted or lower alkyl-, lower alkoxy-, halo- and/or trifluoromethyl-substituted phenyl-lower alkynyl, hydroxy, hydroxy-lower alkyl, lower alkanoyloxy-lower alkyl, lower alkoxy, lower alkenyloxy, lower alkylenedioxy, lower alkanoyloxy, amino-, lower alkylamino-, lower alkanovlamino- or N-lower alkyl-N-lower alkanovlamino-lower alkoxy, unsubstituted or lower alkyl- lower alkoxy-, halo- and/or trifluoromethyl-substituted phenoxy, unsubstituted or lower alkyl- lower alkoxy-, halo- and/or trifluoromethyl-substituted phenyl-lower alkoxy, acyl, carboxy, esterified carboxy, amidated carboxy, cyano, carboxy-lower alkylamino, esterified carboxy-lower alkylamino, amidated carboxylower alkylamino, phosphono-lower alkylamino, esterified phosphono-lower alkylamino, nitro, amino, lower alkylamino, di-lower alkylamino, acylamino, N-acyl-Nlower alkylamino, phenylamino, phenyl-lower alkylamino, cycloalkyl-lower alkylamino or heteroaryl-lower alkylamino each of which may be unsubstituted or lower alkyllower alkoxy-, halo- and/or trifluoromethyl-substituted, in free form or in form of a photoaffinity ligand, a radioactive marker, an N-oxide or a pharmaceutically acceptable salt,

for use in the treatment of disorders associated with irregularities of the glutaminergic signal transmission, and of nervous system disorders mediated full or in part by mGluR5.

- 4. The use of a compound according to claim 3, in the treatment of disorders associated with irregularities of the glutamatergic signal transmission, and of nervous system disorders mediated full or in part by mGluR5.
- 5. The use of a compound according to claim 3, for the manufacture of a pharmaceutical composition designed for the treatment of disorders associated with irregularities of

the glutamatergic signal transmission, and of nervous system disorders mediated full or in part by mGluR5.

#### A compound of formula I

$$R_{2} \xrightarrow{R_{3}} R_{4} \times X - R_{5} \tag{I)}$$

#### wherein

R<sub>1</sub> denotes hydrogen, lower alkyl, hydroxy-lower alkyl, lower alkyl-amino, piperidino, carboxy, esterified carboxy, amidated carboxy, unsubstituted or lower alkyl-, lower alkoxy-, halo- and/or trifluoromethyl-substituted N-lower-alkyl-N-phenylcarbamoyl, lower alkoxy, halo-lower alkyl or halo-lower alkoxy,

R<sub>2</sub> denotes hydrogen, lower alkyl, carboxy, esterified carboxy, amidated carboxy, hydroxy-lower alkyl, hydroxy, lower alkoxy or lower alkanoyloxy, 4-(4-fluoro-benzoyl)-piperidin-1-yl-carboxy, 4-t.-butyloxycarbonyl-piperazin-1-yl-carboxy, 4-(4-azido-2-hydroxy-3-iodo-benzoyl)-piperazin-1-yl-carboxy,

R<sub>3</sub> represents hydrogen, lower alkyl, carboxy, lower alkoxy-carbonyl, lower alkyl-carbamoyl, hydroxy- lower alkyl, di- lower alkyl- aminomethyl, morpholinocarbonyl or 4-(4-fluoro-benzoyl)-piperidin-1-yl-carboxy,

R<sub>4</sub> represents hydrogen, lower alkyl, hydroxy, hydroxy-lower alkyl, amino-lower alkyl, lower alkylamino-lower alkyl, di-lower alkylamino-lower alkyl, unsubstituted or hydroxy-substituted lower alkyleneamino-lower alkyl, lower alkoxy, lower alkanoyloxy, amino-lower alkoxy, lower alkylamino-lower alkoxy, di-lower alkylamino-lower alkoxy, phthalimido-lower alkoxy, unsubstituted or hydroxy- or 2-oxo-imidazolidin-1-yl-substituted lower alkyleneamino-lower alkoxy, carboxy, esterified or amidated carboxy, carboxy-lower-alkoxy or esterified carboxy-lower-alkoxy,

X represents an optionally halo-substituted lower alkenylene or alkynylene group bonded via vicinal unsaturated carbon atoms or an azo (-N=N-) group, and R<sub>5</sub> denotes an aromatic or heteroaromatic group which is unsubstituted or substituted by one or more substituents selected from lower alkyl, halo, halo-lower alkyl, halo-lower alkoxy, lower alkenyl, lower alkynyl, unsubstituted or lower alkyl-, lower alkoxy-, halo- and/or trifluoromethyl-substituted phenyl, unsubstituted or lower alkyl-, lower alkoxy-, halo- and/or trifluoromethyl-substituted phenyl-lower alkynyl, hydroxy,

hydroxy-lower alkyl, lower alkanoyloxy-lower alkyl, lower alkoxy, lower alkenyloxy, lower alkylenedioxy, lower alkanoyloxy, amino-, lower alkylamino-, lower alkanoylamino- or N-lower alkyl-N-lower alkanoylamino-lower alkoxy, unsubstituted or lower alkyl- lower alkoxy-, halo- and/or trifluoromethyl-substituted phenoxy, unsubstituted or lower alkyl- lower alkoxy-, halo- and/or trifluoromethyl-substituted phenyl-lower alkoxy, acyl, carboxy, esterified carboxy, amidated carboxy, cyano, carboxy-lower alkylamino, esterified carboxy-lower alkylamino, amidated carboxy-lower alkylamino, phosphono-lower alkylamino, esterified phosphono-lower alkylamino, nitro, amino, lower alkylamino, di-lower alkylamino, acylamino, N-acyl-N-lower alkylamino, phenylamino, phenyl-lower alkylamino, cycloalkyl-lower alkylamino or heteroaryl-lower alkylamino each of which may be unsubstituted or lower alkyl-lower alkoxy-, halo- and/or trifluoromethyl-substituted,

in free form or in form of a photoaffinity ligand, a radioactive marker, an N-oxide or a pharmaceutically acceptable salt,

provided that, when R<sub>3</sub> is hydrogen,

- a) in compounds of the formula I in which R<sub>1</sub>, R<sub>2</sub> and R<sub>4</sub> are hydrogen, R<sub>5</sub> is different from phenyl, monohalophenyl, 2,4- and 3,4-dichlorophenyl, 3- and 4trifluoromethylphenyl, methylphenyl, 3,4- and 2,5-dimethylphenyl, 4-isopropylphenyl, 3.5-di-tert.-butylphenyl, methoxyphenyl, 3,4-dimethoxyphenyl, 2,4,5- and 3,4,5trimethoxyphenyl, hydroxyphenyl, 3,5-dihydroxyphenyl, 4-hydroxy-3,5-dimethylphenyl, 3-hydroxy-4-methoxy- and 4-hydroxy-3-methoxy-phenyl, 4-hydroxy-(3-methyl-5-tert.-butyl-, 2- and 4-acetylaminophenyl, 3,5-diisopropyl- and 3,5-di-tert.butyl)phenyl, 4-carboxy- and 4-ethoxycarbonylphenyl, 4-cyanophenyl, 3methoxycarbonylphenyl, 3-carboxy-5-methoxy-phenyl, 2-pyridinyl, 5-chloro-2-pyridinyl and 6-methyl-2-pyridinyl when X denotes ethenylene, or R5 is different from phenyl, 4methylphenyl, 4-methoxyphenyl, 4-bromophenyl and 2- and 4-chlorophenyl when X denotes 1,2-propylene attached to R<sub>5</sub> in 2-position, or R<sub>5</sub> is different from phenyl, 2and 4-chlorophenyl and 3-methoxyphenyl when X denotes 1,2-propylene attached to R<sub>5</sub> in 1-position, or R₅ is different from 4-methoxyphenyl when X denotes 2,3-but-2enylene or 1,2-but-1-enylene attached to R<sub>5</sub> in 2-position, or R<sub>5</sub> is different from 4methoxyphenyl and 4-isopropyphenyl when X denotes 2,3-pent-2-enylene attached to R<sub>5</sub> in 3-position, or R<sub>5</sub> is different from phenyl, 4-methylphenyl, methoxyphenyl and 4hydroxyphenyl when X denotes 3,4-hex-3-enylene;
- b) in compounds of the formula I in which  $R_1$  is methyl and  $R_2$  and  $R_4$  are hydrogen,  $R_5$  is different from phenyl, 3-methylphenyl, 2-methoxyphenyl, 2-chlorophenyl, 4-cyanophenyl, , 2-pyridinyl and 6-methyl-2-pyridinyl when X denotes ethenylene;

- c) in compounds of the formula I in which  $R_1$  and  $R_2$  are hydrogen and  $R_4$  is carboxy,  $R_5$  is different from phenyl, 3-methylphenyl, 4-methoxyphenyl and 4-bromophenyl when X denotes ethenylene;
- d) in compounds of the formula I in which  $R_1$  and  $R_2$  are hydrogen and  $R_4$  is methyl,  $R_5$  is different from phenyl, 3-methoxy-, 4-methoxy- and 3,4-dimethoxyphenyl, 2-chloro- and 2,4-dichlorophenyl and 6-methyl-pyrid-2yl when X denotes ethenylene or  $R_5$  is different from phenyl when X is 1,2-prop-1-enylene attached to  $R_5$  in 2-position;
- e) in compounds of the formula I wherein  $R_1$  and  $R_2$  are hydrogen and  $R_4$  is 2-dimethylaminoethoxycarbonyl or 3-dimethylaminopropyloxycarbonyl,  $R_5$  is different from 4-methoxyphenyl when X denotes ethenylene;
- f) in compounds of the formula I in which  $R_1$  and  $R_2$  are hydrogen and  $R_4$  is 2-dimethoxyethoxy,  $R_5$  is different from phenyl, 4-methylphenyl and 4-methoxycarbonylphenyl when X denotes ethenylene;
- g)  $R_5$  is different from phenyl when  $R_1$  and  $R_2$  are hydrogen and  $R_4$  is hydroxy or ethoxycarbonyl, or when  $R_1$  and  $R_2$  are hydrogen and  $R_4$  is hydroxy, or when  $R_1$  is methyl,  $R_2$  is hydrogen and  $R_4$  is methoxy, or  $R_1$  is but-1-enyl,  $R_2$  is hydrogen and  $R_4$  is hydrogen, or  $R_1$  is hydrogen and  $R_4$  is 2-dimethoxyethoxy, and X is, in each case, ethenylene,
- and provided that, when R<sub>3</sub> is hydrogen and X is ethynylene,
- a')  $R_5$  is different from phenyl, 2- and 4-nitrophenyl, 4-aminophenyl, 4-chlorophenyl, 4-methylphenyl, 4-methoxyphenyl, 4-ethoxycarbonylphenyl, 5-formyl-2-methoxy-phenyl, 5-carboxy-2-methyo-phenyl and pyridyl when  $R_1$ ,  $R_2$  and  $R_4$  are hydrogen;
- b') in compounds of the formula I in which  $R_2$  and  $R_4$  are hydrogen,  $R_5$  is different from phenyl, 3-methylphenyl. 6-methylpyridin-2-yl and 2-methoxyphenyl when  $R_1$  is methyl,  $R_5$  is different form 6-bromopyridin-2-yl when  $R_1$  is bromo, and  $R_5$  is different form 6-hexyloxypyridin-2-yl when  $R_1$  denotes hexyloxy;
- c') in compounds of the formula I wherein  $R_1$  and  $R_4$  are hydrogen,  $R_5$  is different from phenyl, 4-aminophenyl and 4-propylphenyl when  $R_2$  is methyl,  $R_5$  is different from phenyl, 4-cyanophenyl and 4-pentylphenyl when  $R_2$  is ethyl,  $R_5$  is different form 3-cyano-4-ethoxy-phenyland 3-bromo-4-methoxy-phenyl when  $R_2$  is butyl,  $R_5$  is different from 4-methoxyphenyl and 4 butyloxyphenyl when  $R_2$  is pentyl,  $R_5$  is different form 4-ter.-butylohenyl, 3-tert.-butyl-4-hydroxy-phenyl, 4-tert.-butyl-3-hydroxy-phenyl, and 4-hexyloxyphenyl when  $R_2$  is carboxy,  $R_5$  is different from phenyl when  $R_2$  is methoxycarbonyl or methylcarbamoyl,  $R_4$  is different form 3-tert.-butylphenyl, 3-tert.-butyl-4-hydroxy-phenyl and 4-(4-methylpentyl)phenyl when  $R_2$  is ethoxycarbonyl, and  $R_5$  is different from 4-pentyloxyphenyl when  $R_2$  is 2-methylbutyloxycarbonyl;

d') in compounds of the formula I wherein R₁ and R₂ are hydrogen, R₅ is different from phenyl when R₄ is hydroxy, methyl, ethyl, carboxy, methoxycarbonyl or carbamoyl.

#### 7. A compound according to claim 6, wherein

- X represents an optionally halo-substituted (C<sub>2-4</sub>)alkenylene or alkynylene group bonded via vicinal unsaturated carbon atoms.
- R<sub>1</sub> is hydrogen, (C<sub>1-4</sub>) alkyi, (C<sub>1-4</sub>)alkoxy, hydroxy(C<sub>1-4</sub>)alkyl, cyano, ethynyl, carboxy, (C<sub>1-4</sub>)alkoxycarbonyl, di(C<sub>1-4</sub>)alkylamino, (C<sub>1-6</sub>)alkylaminocarbonyl, trifluoromethylphenylaminocarbonyl,
- R<sub>2</sub> is hydrogen, hydroxy, (C<sub>1-4</sub>) alkyl, hydroxy (C<sub>1-4</sub>) alkyl, (C<sub>1-4</sub>) alkoxy, carboxy, (C<sub>2-5</sub>)alkanoyloxy, (C<sub>1-4</sub>) alkoxycarbonyl, di(C<sub>1-4</sub>)alkylamino(C<sub>1-4</sub>)alkanoyl, di(C<sub>1-4</sub>)alkylaminomethyl, 4-(4-fluoro-benzoyl)-piperidin-1-yl-carboxy, 4-t.-butyloxycarbonyl-piperazin-1-yl-carboxy, 4-(4-azido-2-hydroxybenzoyl)-piperazin-1-yl-carboxy or 4-(4-azido-2-hydroxy-3-iodo-benzoyl)-piperazin-1-yl-carboxy,
- R<sub>3</sub> is hydrogen, (C<sub>1-4</sub>) alkyl, carboxy, (C<sub>1-4</sub>)alkoxycarbonyl, (C<sub>1-4</sub>)alkylcarbamoyl, hydroxy(C<sub>1-4</sub>)alkyl, di(C<sub>1-4</sub>)alkylaminomethyl, morpholinocarbonyl or 4-(4-fluorobenzoyl)-piperidin-1-yl-carboxy,
- R<sub>4</sub> is hydrogen, hydroxy, (C<sub>1-4</sub>)alkoxy, carboxy, (C<sub>2-5</sub>)alkanoyloxy, (C<sub>1-4</sub>)alkoxycarbonyl, amino(C<sub>1-4</sub>)alkoxy, di(C<sub>1-4</sub>)alkylamino(C<sub>1-4</sub>)alkoxy, di(C<sub>1-4</sub>)alkylamino(C<sub>1-4</sub>)alkoxy, di(C<sub>1-4</sub>)alkylamino(C<sub>1-4</sub>)alkoxycarbonyl-(C<sub>1-4</sub>)alkoxy, hydroxy(C<sub>1-4</sub>)alkyl, di(C<sub>1-4</sub>)alkylamino(C<sub>1-4</sub>)alkoxy, m-hydroxy-p-azidophenylcarbonylamino(C<sub>1-4</sub>)alkoxy, and

#### wherein

 $R_a$  and  $R_b$  independently are hydrogen, hydroxy, halogen, nitro, cyano, carboxy,  $(C_{1-4})$ alkyl,  $(C_{1-4})$ alkoxy, hydroxy $(C_{1-4})$ alkyl,  $(C_{1-4})$ alkoxycarbonyl,  $(C_{2-7})$ alkanoyl,

(C<sub>2-5</sub>)alkanoyloxy, (C<sub>2-5</sub>)alkanoyloxy(C<sub>1-4</sub>)alkyl, trifluoromethyl, trifluoromethoxy, trimethylsilylethynyl, (C<sub>2-5</sub>)alkynyl, amino, azido, amino (C<sub>1-4</sub>)alkoxy, (C<sub>2-5</sub>)alkanoylamino(C<sub>1-4</sub>)alkoxy, (C<sub>1-4</sub>)alkylamino(C<sub>1-4</sub>)alkoxy, di(C<sub>1-4</sub>)alkylamino, di(C<sub>1-4</sub>)alkylamino, monohalobenzylamino, thienylmethylamino, thienylcarbonylamino, trifluoromethylphenylaminocarbonyl, tetrazolyl, (C<sub>2-5</sub>)alkanoylamino, benzylcarbonylamino, (C<sub>1-4</sub>)alkylaminocarbonylamino, (C<sub>1-4</sub>)alkoxycarbonyl-aminocarbonylamino or (C<sub>1-4</sub>)alkylsulfonyl, R<sub>c</sub> is hydrogen, fluorine, chlorine, bromine, hydroxy, (C<sub>1-4</sub>)alkyl, (C<sub>2-5</sub>)alkanoyloxy, (C<sub>1-4</sub>)alkoxy or cyano, and R<sub>d</sub> is hydrogen, halogen or (C<sub>1-4</sub>)alkyl.

#### 8. A compound according to claim 6, wherein

R<sub>1</sub> is hydrogen, (C<sub>1-4</sub>) alkyl, (C<sub>1-4</sub>)alkoxy, cyano, ethynyl or di(C<sub>1-4</sub>)alkylamino,

is hydrogen, hydroxy, carboxy, (C<sub>1-4</sub>) alkoxycarbonyl, di(C<sub>1-4</sub>)alkylaminomethyl, 4-(4-fluoro-benzoyl)-piperidin-1-yl-carboxy, 4-t.-butyloxycarbonyl-piperazin-1-yl-carboxy, 4-(4-azido-2-hydroxybenzoyl)-piperazin-1-yl-carboxy or 4-(4-azido-2-hydroxy-3-iodo-benzoyl)-piperazin-1-yl-carboxy,

R<sub>3</sub> is as defined in claim 7,

R<sub>4</sub> is hydrogen, hydroxy, carboxy, (C<sub>2-5</sub>)alkanoyloxy, (C<sub>1-4</sub>)alkoxycarbonyl, amino (C<sub>1-4</sub>)alkoxy, di(C<sub>1-4</sub>)alkylamino(C<sub>1-4</sub>)alkylamino(C<sub>1-4</sub>)alkyl or hydroxy(C<sub>1-4</sub>)alkyl, and

R<sub>5</sub> is a group of formula

$$\begin{array}{c|c} & & & \\ & & & \\ \hline & & \\ R_c & & \\ \end{array}$$
 Or 
$$\begin{array}{c|c} & & \\ & & \\ \end{array}$$

wherein

 $R_a$  and  $R_b$  independently are hydrogen, halogen, nitro, cyano, ( $C_{1-4}$ )alkyl, ( $C_{1-4}$ )alkoxy, trifluoromethyl, trifluoromethoxy or ( $C_{2-5}$ )alkynyl, and  $R_c$  and  $R_d$  are as defined in claim 7.

#### 9. A compound according to claim 6, selected from

3-[2-(6-Methylpyridin-2-yl)-vinyl]-benzonitrile 2-[2-(6-Methyl-pyridin-2-yl)-vinyl]-benzonitrile

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2-Methyl-6-[2-(pyridin-4-yl)-vinyl]-pyridine
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- 2-Methyl-6-[2-(pyridin-3-yl)-vinyl]-pyridine
- 2-[2-(3-Bromophenyl)ethynyl]-6-methyl-pyridine
- 3-[2-(6-Methylpyridin-2-yl)ethynyl]-benzonitrile
- 2-Styryl-pyridin-3-ol
- 2-Methyl-6-[2-(3-nitro-phenyl)-vinyl]-pyridine

Acetic acid 6-[2-(2-chloro-phenyl)-vinyl]-pyridin-3-yl ester

6-[2-(2-Chloro-phenyl)-vinyl]-pyridin-3-ol

Acetic acid 2-[2-(2-chloro-phenyl)-vinyl]-pyridin-3-yl ester

2-[2-(2-Chloro-phenyl)-vinyl]-pyridin-3-ol

6-Methyl-2-styryl-pyridin-3-ol

Acetic acid 2-[2-(2-chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester

- 2-[2-(2-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-ol
- (Z)-6-Methyl-2-styryl-pyridin-3-ol
- 2-[2-(2-Nitro-phenyl)-vinyl]-pyridine

Acetic acid 2-[2-(4-chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester

Acetic acid 6-[2-(4-chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yi ester

2-[2-(4-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-ol

6-[2-(4-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol

Acetic acid 6-methyl-2-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester

6-Methyl-2-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-ol

Acetic acid 2-methyl-6-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-yl ester

2-Methyl-6-[2-(2-nitro-phenyl)-vinyl]-pyridin-3-ol

Acetic acid 2-[2-(3-chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester

Acetic acid 6-[2-(3-chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl ester

- 2-[2-(3-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-ol
- 6-[2-(3-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol
- (Z)-(6-Styryl-pyridin-2-yl)-methanol
- (E)-(6-Styryl-pyridin-2-yl)-methanol

Dimethyl-[3-(6-methyl-2-styryl-pyridin-3-yloxy)-propyl]-amine;

- 2-Methyl-6-styryl-pyridine 1-oxide
- 2-Styryl-pyridine 1-oxide
- (E)-6-Methyl-2-(2-pyridin-2-yl-vinyl)-pyridin-3-ol
- (Z)-6-Methyl-2-(2-pyridin-2-yl-vinyl)-pyridin-3-ol;
- 6-Styryl-pyridine-2-carbonitrile
- 2-[2-(2,6-Dichloro-phenyl)-vinyl]-6-methyl-pyridine

- 3-Methoxy-6-methyl-2-styryl-pyridine
- 6-Styryl-pyridine-2-carboxylic acid amide
- 2-[2-(6-Methyl-pyridin-2-yl)-vinyl]-benzonitrile
- 6-Styryl-pyridine-2-carboxylic acid;
- 6-Styryl-pyridine-2-carboxylic acid methyl ester
- Acetic acid 2-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl ester
- 2-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenol
- Acetic acid 2-methoxy-4-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl ester
- 2-[2-(3-Chloro-phenyl)-vinyl]-6-methyl-pyridine
- 2-[2-(4-Chloro-phenyl)-vinyl]-6-methyl-pyridine
- 2-[2-(2-Chloro-phenyl)-vinyl]-5-ethyl-pyridine
- 1-(6-Styryl-pyridin-2-yl)-ethanone
- 6-[2-(2-Chloro-phenyl)-vinyl]-2-methyl-nicotinic acid ethyl ester
- 2-[2-(2-Chloro-phenyl)-vinyl]-6-methyl-nicotinic acid ethyl ester
- 2-[2-(6-Methyl-pyridin-2-yl)-vinyl]-benzoic acid;
- 3-[2-(6-Methyl-pyridin-2-yl)-vinyl]-benzoic acid
- 4-[2-(6-Methyl-pyridin-2-yl)-vinyl]-benzoic acid
- 3-[2-(6-Methyl-pyridin-2-yl)-vinyl]-benzoic acid methyl ester
- 4-[2-(6-Methyl-pyridin-2-yl)-vinyl]-benzoic acid methyl ester
- 2-Methoxy-4-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenol
- {3-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenyl}-methanol;
- 6-Styryl-pyridine-2-carboxylic acid .tert.-butylamide
- 2-(2-Bromo-2-phenyl-vinyl)-6-methyl-pyridine;
- 6-Styryl-pyridine-2-carboxylic acid hexylamide;
- 6-[2-(2-Chloro-phenyl)-vinyl]-2-methyl-nicotinic acid
- 2-[2-(2-Chloro-phenyl)-vinyl]-6-methyl-nicotinic acid
- 2-[2-(3,5-Dichloro-phenyl)-vinyl]-6-methyl-pyridine
- 2-Methyl-6-[2-(3-trifluoromethyl-phenyl)-vinyl]-pyridine
- (E)-6-[2-(4-Pyridyl)vinyl]-2-picoline
- N,N-Diethyl-3-[2-(6-methyl-pyridin-2-yl)-vinyl]-benzamide;
- N,N-Diethyl-4-[2-(6-methyl-pyridin-2-yl)-vinyl]-benzamide;
- (E)-6-[2-(3-pyridyl)vinyl]-2-Picoline
- {2-[2-(2-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-acetic acid ethyl ester
- 3-[2-(6-Methyl-pyridin-2-yl)-vinyl]-.N.-(3-trifluoromethyl-phenyl)-benzamide;
- 4-[2-(6-Methyl-pyridin-2-yl)-vinyl]-.N.-(3-trifluoromethyl-phenyl)-benzamide
- 2-[2-(3-Nitro-phenyl)-vinyl]-pyridine

- 6-Styryl-pyridine-2-carboxyiic acid (3-trifluoromethyl-phenyl)-amide
- 2-(6-Styryl-pyridin-2-yl)-propan-2-ol
- 2-Methyl-6-(2-thiophen-2-yl-vinyl)-pyridine
- 2-[2-(3-Cyano-phenyl)-vinyl]-pyridine
- 2-[2-(3-Bromo-phenyl)-vinyl]-6-methyl-pyridine
- 2-[2-(3-Bromo-phenyl)-2-fluoro-vinyl]-6-methyl-pyridine
- 2-[2-(3,5-Dimethylphenyl)-2-fluoro-vinyl]-6-methyl-pyridine
- 2-[2-(2,3-Dimethoxy-phenyl)-vinyl]-6-methyl-pyridine
- 2-[2-(2,3-Dichloro-phenyl)-vinyl]-6-methyl-pyridine
- 2-[2-(3-Chloro-phenyl)-1-methyl-vinyl]-pyridine
- {2-[2-(2-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl}-methanol
- 2-Methyl-6-[2-(3-trimethylsilanylethynyl-phenyl)-vinyl]-pyridine
- 2-[2-(3,4-Difluoro-phenyl)-vinyl]-6-methyl-pyridine
- 2-[2-(3-Ethynyl-phenyl)-vinyl]-6-methyl-pyridine
- 2-[2-(3,5-Difluoro-phenyl)-vinyl]-6-methyl-pyridine
- 2-[2-(3-Fluoro-phenyl)-vinyl]-6-methyl-pyridine
- 2-[2-(3-Methoxy-phenyl)-vinyl]-6-methyl-pyridine
- 2-Methyl-6-[2-(3-phenoxy-phenyl)-vinyl]-pyridine
- 2-[2-(3-Benzyloxy-phenyl)-vinyl]-6-methyl-pyridine
- 2-[2-(2,5-Difluoro-phenyl)-vinyl]-6-methyl-pyridine
- {2-[2-(2-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-acetic acid
- (3-{2-[2-(3-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-propyl)-dimethyl-amine
- {6-[2-(2-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl}-methanol
- 2-(3-Bromo-phenylethynyl)-6-methyl-pyridine
- 2-Methyl-6-{2-[3-(3-trifluoromethyl-phenoxy)-phenyl]-vinyl}-pyridine.
- 2-[2-(3,5-Dimethoxy-phenyl)-vinyl]-6-methyl-pyridine
- 2-[2-(3-Chloro-phenyl)-vinyl]-3-methoxy-6-methyl-pyridine
- Acetic acid 4-bromo-2-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl ester...
- Acetic acid 3-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl ester
- 2-[2-(3,4-Dichloro-phenyl)-vinyl]-6-methyl-pyridine
- 4-Bromo-2-[2-(6-methyl-pyridin-2-yl)-viny!]-phenol
- Acetic acid 2-[2-(3,5-dichloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl ester
- Acetic acid 6-[2-(3,5-dichloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl ester
- Acetic acid 2-[2-(3,5-dichloro-phenyl)-vinyl]-pyridin-3-yl ester
- 2-Methyl-6-(2-naphthalen-1-yl-vinyl)-pyridine
- 2-[2-(2,3-Dihydro-benzo[1,4]dioxin-6-yl)-vinyl]-6-methyl-pyridine

- 2-Methyl-6-(2-naphthalen-2-yl-vinyl)-pyridine
- 2-{2-[3-(3,5-Dichloro-phenoxy)-phenyl]-vinyl}-6-methyl-pyridine
- 2-[2-(3-Chloro-phenyl)-propenyl]-6-methyl-pyridine
- 2-[2-(2,3-Dihydro-benzofuran-5-yl)-vinyl]-6-methyl-pyridine
- 2-[2-(4-Fluoro-phenyl)-vinyl]-6-methyl-pyridine
- 2-Methyl-6-(2-o-tolyl-vinyl)-pyridine
- 2-Methyl-6-(2-p-tolyl-vinyl)-pyridine
- 2-Methyl-6-(2-p-tolyl-propenyl)-pyridine
- 3-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenylamine
- (2,3-Dimethoxy-7-nitro-quinoxalin-5-ylmethyl)-{3-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl}-amine
- N-{3-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenyl}-acetamide
- N-{3-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenyl}-2-phenyl-acetamide
- 2,2-Dimethyl-N-{3-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl}-propionamide
- Thiophene-2-carboxylic acid {3-[2-(6-methyl-pytidin-2-yl)-vinyl]-phenyl}-amide
- Cyclohexanecarboxylic acid {3-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl}-amide
- 1-(4-Bromo-phenyl)-3-{3-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl}-urea
- 2-Methyl-6-[2-(4-nitro-phenyl)-vinyl]-pyridine
- 4-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenylamine
- 2-[2-(3,5-Dichloro-phenyl)-vinyl]-6-methyl-pyridin-3-ol
- 6-[2-(3,5-Dichloro-phenyl)-vinyl]-2-methyl-pyridin-3-ol
- 2-[2-(3,5-Dichloro-phenyl)-vinyl]-pyridin-3-ol
- 2-[2-(6-Chloro-benzo[1,3]dioxol-5-yl)-vinyl]-6-methyl-pyridine
- 2-[2-(2,3-Difluoro-phenyl)-vinyl]-6-methyl-pyridine
- 2-[2-(3,4-Dichloro-phenyl)-propenyl]-6-methyl-pyridine
- 2-[2-(3,5-Bis-trifluoromethyl-phenyl)-vinyl]-6-methyl-pyridine
- Acetic acid 2-methoxy-6-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl ester
- 2-Methoxy-6-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenol
- 2-Methyl-6-[2-(2,3,6-trifluoro-phenyl)-vinyl]-pyridine
- 2-[2-(4-Fluoro-3-trifluoromethyl-phenyl)-vinyl]-6-methyl-pyridine
- 2-Methyl-6-(2,3,6-trifluoro-phenylethynyl)-pyridine
- Acetic acid 4-chloro-2-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl ester
- Acetic acid 2,6-di-.tert.-butyl-4-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl ester
- 3-(6-Methyl-pyridin-2-ylethynyl)-benzamide
- Acetic acid 4-bromo-2-methoxy-6-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl ester
- 2-(6-Chloro-benzo[1,3]dioxol-5-ylethynyl)-6-methyl-pyridine

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2-[2-(3,5-Dichloro-phenyl)-vinyl]-3-methoxy-6-methyl-pyridine
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- 2-[2-(3,5-Dichloro-phenyl)-vinyl]-3-methoxy-pyridine
- 5-Azido-2-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenol
- 2-[2-(Pyridin-3-yl)ethynyl]-6-methyl-pyridine
- N-{3-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenyl}-succinamic acid
- 1-tert.-Butyl-3-{3-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl}-urea
- 5-({3-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenylamino}-methyl)-7-nitro-1,4-dihydro-quinoxaline-2,3-dione

Tetrahydro-furan-2-carboxylic acid {3-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl}-amide

(1-{3-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenylcarbamoyl}-2-phenyl-ethyl)-carbamic acid tert.-

butyl ester

({3-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenylcarbamoyl}-methyl)-carbamic acid tert.-butyl ester

Diethyl-{3-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl}-amine

Ethyl-{3-[2-(6-methyl-pyridin-2-yi)-vinyl]-phenyl}-amine

Ethyl-{3-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl}-amine

- 2-(2-Ethoxy-3,6-difluoro-phenylethynyl)-6-methyl-pyridine
- 2-(3,5-Difluoro-phenylethynyl)-6-methyl-pyridine
- 2-(3-Fluoro-phenylethynyl)-6-methyl-pyridine
- 2-[2-(3,5-Dimethyl-phenyl)-vinyl]-6-methyl-pyridine
- 2-[2-(3,4-Dimethoxy-phenyl)-vinyl]-6-methyl-pyridine
- 2-(3,4-Dichloro-phenylethynyl)-6-methyl-pyridine
- 2-(4-Ethoxy-3-trifluoromethyl-phenylethynyl)-6-methyl-pyridine
- 2-(4-Fluoro-phenylethynyl)-6-methyl-pyridine
- 2-Methyl-6-o-tolylethynyl-pyridine
- 2-(3,4-Difluoro-phenylethynyl)-6-methyl-pyridine
- 2-Methyl-6-[2-(2,3,5-trichloro-phenyl)-vinyl]-pyridine
- 1-[3-(6-Methyl-pyridin-2-ylethynyl)-phenyl]-ethanone
- 2-Methyl-6-(3-trifluoromethyl-phenylethynyl)-pyridine
- 2-Methyl-6-(3-nitro-phenylethynyl)-pyridine
- 6-[2-(3,5-Dichloro-phenyl)-vinyl]-3-methoxy-2-methyl-pyridine
- {2-[2-(2-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yl}-morpholin-4-yl-methanone
- (3-{2-[2-(3,5-Dichloro-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-propyl)-dimethyl-amine
- N-[4-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenyl]-succinamic acid
- N-[4-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenyl}-2-phenyl-acetamide
- ({4-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenylcarbamoyl}-methyl)-carbamic acid .tert.-butyl ester
- 1-(tert.-Butyl-3-{4-[2-(6-methyl-pyridin-2-yl)-vinyl}-phenyl}-urea

{3-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenyl}-thiophen-2-ylmethyl-amine hydrochloride salt

Cyclohexylmethyl-{3-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl}-amine hydrochloride salt

{4-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenyl}-thiophen-2-ylmethyl-amine

Cyclohexylmethyl-{4-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl}-amine

2-Amino-N-{3-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl}-3-phenyl-propionamide

2-Amino-N-{3-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl}-acetamide

2-Amino-N-{4-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl}-acetamide

1-[1-({2-[2-(2-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-acetyl)-piperidin-4-yl]-imidazolidin-2-one

(1-{4-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenylamino}-ethyl)-phosphonic acid dimethyl ester

2-(3-Ethoxy-4-fluoro-phenylethynyl)-6-methyl-pyridine

2-(3-Chloro-phenylethynyl)-6-methyl-pyridine

1-(3-Pyridin-2-ylethynyl-phenyl)-ethanone

4-Chloro-2-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenol

4-Bromo-2-methoxy-6-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenol

2-(2,5-Difluoro-phenylethynyl)-6-methyl-pyridine

2-(3,5-Dimethyl-phenylethynyl)-6-methyl-pyridine

2-[2-(3,5-Dibromo-phenyl)-vinyl]-6-methyl-pyridine

3-(6-Methyl-pyridin-2-ylethynyl)-benzonitrile

2-Methyl-6-[2-(pyrimidin-5-yl)-ethynyl]-pyridine

(2-[2-[3-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-ethyl)-dimethyl-amine

Acetic acid 1-{4-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenyl}-ethyl ester

3-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenol

3-(6-Methyl-pyridin-2-ylethynyl)-phenylamine

.N.-[3-(6-Methyl-pyridin-2-ylethynyl)-phenyl]-2-phenyl-acetamide

Thiophene-2-carboxylic acid [3-(6-methyl-pyridin-2-ylethynyl)-phenyl]-amide

2-Methyl-6-thiophen-2-ylethynyl-pyridine

3-(6-Methyl-pyridin-2-ylethynyl)-benzoic acid ethyl ester

2-(3,5-Dibromo-phenylethynyl)-6-methyl-pyridine

{2-[2-(2-Chloro-pheny!)-vinyl]-6-methyl-pyridin-3-ylmethyl}-dimethyl-amine

(3-{6-[2-(3-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yloxy}-propyl)-dimethyl-

5-Azido-4-iodo-2-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenol

2,6-Di-tert.-butyl-4-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenol

1-{4-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenyl}-ethanol

2-Methyl-6-[2-(pyrimidin-2-yl)-ethynyl]-pyridine

[3-(6-Methyl-pyridin-2-ylethynyl)-phenyl]-phenyl-methanone

- 6-(6-Methyl-pyridin-2-ylethynyl)-3,4-dihydro-1H-quinolin-2-one
- 2-(3-{2-[2-(3-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-propyl)-isoindole-1,3-dione
- 3-Methoxy-6-methyl-2-.m.-tolylethynyl-pyridine

Acetic acid 2-[2-(6-methyl-pyridin-2-yl)-vinyl]-4-nitro-phenyl ester

- 6-(6-Methyl-pyridin-2-ylethynyl)-indan-1-one
- 2-Methyl-6-[2-(pyrazin-2-yl)-ethynyl]-pyridine
- N-Methyl-.N.-(3-{4-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenoxy}-propyl)-acetamide
- 2-[2-(3,5-Bis-trifluoromethyl-phenyl)-1-ethoxy-vinyl]-6-methyl-pyridine

Acetic acid 2-phenylethynyl-pyridin-3-yl ester

Acetic acid 6-methyl-2-m-tolylethynyl-pyridin-3-yl ester

Acetic acid 4-[2-(6-methyl-pyridin-2-yl)-vinyl]-2-nitro-phenyl ester

2-[2-(6-Methyl-pyridin-2-yl)-vinyl]-4-nitro-phenol

Dimethyl-[3-(2-phenylethynyl-pyridin-3-yloxy)-propyl]-amine

Dimethyl-(3-{4-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenoxy}-propyl)-amine

- 1-[4-[2-(6-Methyl-pyridin-2-yl)-vinyl]-phenyl]-ethanone
- 2-(3-Fluoro-phenylethynyl)-quincline

Acetic acid 2-methyl-6-styryl-pyridin-3-yl ester

- 4-[2-(6-Methyl-pyridin-2-yl)-vinyl]-2-nitro-phenol
- 3-Ethoxy-4-[2-(6-methyl-pyridin-2-yl)-vinyl]-2-nitro-phenol
- 4-(6-Methyl-pyridin-2-ylethynyl)-2-nitro-phenol

Acetic acid 2-[2-(6-methyl-pyridin-2-yl)-vinyl]-6-nitro-phenyl ester

Dimethyl-[3-(6-methyl-2-phenylethynyl-pyridin-3-yloxy)-propyl]-amine

2-Azido-4-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenol

Dimethyl-[3-(6-methyl-2-.m.-tolylethynyl-pyridin-3-yloxy)-propyl]-amine

- 2-(3-Methanesulfonyl-phenylethynyl)-6-methyl-pyridine
- 3-{2-[2-(3-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-propylamine
- 4-Azido-N-(3-{2-[2-(3-chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-propyl)-2-hydroxy-benzamide
- 3-[3-(3-Dimethylamino-propoxy)-6-methyl-pyridin-2-ylethynyl]-benzonitrile
- 5-(6-Methyl-pyridin-2-ylethynyl)-indan-1-one
- 2-Methyl-6-(2,3,5-trichloro-phenylethynyl)-pyridine
- 2-[2-(6-methyl-pyridin-3-yl)ethynyl]-6-methyl-pyridine

Dimethyl-{3-[6-methyl-2-(3-trifluoromethyl-phenylethynyl)-pyridin-3-yloxy]-propyl}-amine

- 2-[2-(6-methyi-pyridin-3-yl)ethynyl]-3-methoxy 6-methyl-pyridine hydrochloride salt
- 2-Methyl-6-(5,6,7,8-tetrahydro-naphthalen-2-ylethynyl)-pyridine
- 3-[2-(3-Chloro-phenylethynyl)-6-methyl-pyridin-3-yloxy]-propylamine

- (3-{4-Bromo-2-methoxy-6-[2-(6-methyl-pyridin-2-yl)-vinyl]-phenoxy}-propyl)-dimethyl-amine;
- [6-(3-Fluoro-phenylethynyl)-pyridin-2-yl]-dimethyl-amine
- 6'-(3-Fluoro-phenylethynyl)-3,4,5,6-tetrahydro-2H-[1,2]bipyridinyl
- {3-[2-(3-Chloro-phenylethynyl)-6-methyl-pyridin-3-yloxy]-propyl}-dimethyl-amine
- 4-Azido-N-{3-[2-(3-chloro-phenylethynyl)-6-methyl-pyridin-3-yloxy]-propyl}-2-hydroxy-

#### benzamide

- 1-[3-(6-Methyl-pyridin-2-ylethynyl)-phenyl]-1H-[1,2,4]triazole-3-carboxylic acid ethyl ester
- 1-[3-(6-Methyl-2-phenylethynyl-pyridin-3-yloxy)-propyl]-piperidin-3-ol
- 2-Ethynyl-6-(3-fluoro-phenylethynyl)-pyridine
- 3-Methyl-6-(6-methyl-pyridin-2-ylethynyl)-3H-benzooxazol-2-one
- 1-[3-(6-Methyl-pyridin-2-ylethynyl)-phenyl]-1H-[1,2,4]triazole-3-carboxylic acid
- 1-[3-(6-Methyl-pyridin-2-ylethynyl)-phenyl]-1H-[1,2,4]triazole-3-carboxylic acid dimethylamide
- 1-[3-(6-Methyl-2-phenylethynyl-pyridin-3-yloxy)-propyl]-piperidin-4-ol
- 5-(6-Methyl-pyridin-2-ylethynyl)-2-nitro-phenol
- 5-[2-Bromo-2-(6-methyl-pyridin-2-yl)-vinyl]-2-nitro-phenol
- 5-[2-(6-Methyl-pyridin-2-yl)-E-vinyl]-2-nitro-phenol
- 5-[2-(6-Methyl-pyridin-2-yl)-Z-vinyl]-2-nitro-phenol
- 4-Azido-2-hydroxy-N-[3-(6-methyl-pyridin-2-ylethynyl)-phenyl]-benzamide
- 5-(3-Dimethylamino-propoxy)-6-phenylethynyl-pyridine-2-carboxylic acid ethyl ester
- 6-Methyl-2-styryl-pyrimidin-4-ol
- 2-Ethyl-6-(3-fluoro-phenylethynyl)-pyridine
- 2-(3,5-Dichloro-phenylethynyl)-6-methyl-pyridine
- 2-Methyl-6-(3-trifluoromethoxy-phenylethynyl)-pyridine
- 2-Methyl-6-(3-[1,2,4]triazol-1-yl-phenylethynyl)-pyridine
- 4-(6-Methyl-pyridin-2-ylethynyl)-phthalonitrile
- 2-Methyl-6-{2-[3-(1H-tetrazol-5-yl)-phenyl]-vinyl}-pyridine; compound with formic acid
- 3-[2-(3,5-Dichloro-phenylethynyl)-6-methyl-pyridin-3-yloxy]-propylamine
- {3-[2-(3,5-Dichloro-phenylethynyl)-6-methyl-pyridin-3-yloxy]-propyl}-dimethyl-amine
- 2-(3,5-Dimethyl-phenylethynyl)-3-methoxy-6-methyl-pyridine
- 2-[2-(3-Fluoro-phenyl)-vinyl]-6-methyl-pyridin-3-ol
- 6-(3-Fluoro-phenylethynyl)-2-methyl-nicotinic acid ethyl ester
- 2-Azido-5-(6-methyl-pyridin-2-ylethynyl)-phenol
- 6-(3,4-Dimethoxy-phenylethynyl)-5-(3-dimethylamino-propoxy)-pyridine-2-carboxylic acid ethyl ester
- 2-(4-Methoxy-3-trifluoromethyl-phenylethynyl)-6-methyl-pyridine
- 2-(3-Fluoro-phenylethynyl)-6-methoxy-pyridine

- 2-(3-Fluoro-phenylethynyl)-5-methyl-pyridine
- 6-(3,5-Dichloro-phenylethynyl)-5-(3-dimethylamino-propoxy)-pyridine-2-carboxylic acid ethyl ester
- 5-(3-Dimethylamino-propoxy)-6-(3,5-dimethyl-phenylethynyl)-pyridine-2-carboxylic acid ethyl ester
- 6-(3-Fluoro-phenylethynyl)-2-methyl-nicotinic acid
- [6-(3-Fluoro-phenylethynyl)-2-methyl-pyridin-3-yl]-methanol
- [4-(4-Fluoro-benzoyl)-piperidin-1-yl]-[6-(3-fluoro-phenylethynyl)-2-methyl-pyridin-3-yl]-methanone
- 2-(3-Fluoro-phenylethynyl)-6-methyl-nicotinic acid ethyl ester
- 2-(3-Fluoro-phenylethynyl)-4,6-dimethyl-pyridine
- 6-(3-Fluoro-phenylethynyl)-.N.-(5-methoxy-indan-2-ylmethyl)-2-methyl-nicotinamide
- {[6-(3-Fluoro-phenylethynyl)-2-methyl-pyridine-3-carbonyl]-amino}-phenyl-acetic acid methyl ester
- 2-Methyl-6-(5-methyl-thiophen-2-ylethynyl)-pyridine
- 2-Methyl-6-(2,3,5-trimethyl-phenylethynyl)-pyridine
- 3-{2-[2-(3-Fluoro-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-propan-1-ol
- [6-(3-Fluoro-phenylethynyl)-2-methyl-pyridin-3-ylmethyl]-dimethyl-amine
- 2,2-Dimethyl-propionic acid 3-[2-(3-fluoro-phenylethynyl)-6-methyl-pyridin-3-yloxy]-propyl ester
- 2-Azido-4-iodo-5-(6-methyl-pyridin-2-ylethynyl)-phenol
- 6-Azido-2,4-diiodo-3-(6-methyl-pyridin-2-ylethynyl)-phenol
- 4-Azido-2-hydroxy-5-iodo-.N.-[3-(6-methyl-pyridin-2-ylethynyl)-phenyl]-benzamide
- Acetic acid 3-acetoxymethyl-5-(6-methyl-pyridin-2-ylethynyl)-benzyl ester
- (Benzyl-{[2-(3-fluoro-phenylethynyl)-6-methyl-pyridin-3-yloxy]-acetyl}-amino)-acetic acid ethyl ester
- 2-[2-(3-Fluoro-phenyl)-vinyl]-6-methyl-isonicotinic acid ethyl ester
- 3-[2-(3-Fluoro-phenylethynyl)-6-methyl-pyridin-3-yloxy]-propan-1-ol
- [3-Hydroxymethyl-5-(6-methyl-pyridin-2-ylethynyl)-phenyl]-methanol
- (3-[2-[2-(3,5-Dimethyl-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-propyl)-dimethyl-amine
- [4-(4-Fluoro-benzoyl)-piperidin-1-yl]-{6-[2-(3-fluoro-phenyl)-vinyl]-2-methyl-pyridin-3-yl}-methanone
- 2-[2-(3-Fluoro-phenyl)-vinyl]-6-methyl-isonicotinic acid
- {6-[2-(2-Chloro-phenyl)-vinyl]-2-methyl-pyridin-3-yl}-[4-(4-fiuoro-benzoyl)-piperidin-1-yl]-methanone
- 2-(3-Ethynyl-phenylethynyl)-6-methyl-pyridine

- (3-{2-[2-(2,6-Dichloro-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-propyl)-dimethyl-amine
- (3-{2-{2-(2,3-Dichloro-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-propyl)-dimethyl-amine
- 4-[6-(3-Fluoro-phenylethynyl)-2-methyl-pyridine-3-carbonyl]-piperazine-1-carboxylic acid tert.-butyl ester
- [6-(3-Fluoro-phenylethynyl)-2-methyl-pyridin-3-yl]-piperazin-1-yl-methanone
- [4-(4-Azido-2-hydroxy-benzoyi)-piperazin-1-yl]-[6-(3-fluoro-phenylethynyl)-2-methyl-pyridin-3-yl]-methanone
- (3-{2-[2-(2,4-Dichloro-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-propyl)-dimethyl-amine
- 2-(3-Fluoro-phenylethynyl)-6-methyl-isonicotinic acid ethyl ester
- 2-(3-Fluoro-phenylethynyl)-6-methyl-isonicotinic acid .tert.-butyl ester
- 2-(3-Fluoro-phenylethynyl)-6-methyl-isonicotinic acid
- [2-(3-Fluoro-phenylethynyl)-6-methyl-pyridin-4-yl]-methanol
- [4-(4-Fluoro-benzoyl)-piperidin-1-yl]-[2-(3-fluoro-phenylethynyl)-6-methyl-pyridin-4-yl]-methanone
- 3-Allyloxy-2-[2-(3,5-dichloro-phenyl)-vinyl]-6-methyl-pyridine
- [2-(3-Fluoro-phenylethynyl)-6-methyl-pyridin-4-yl]-morpholin-4-yl-methanone

Acetic acid 3-(6-methyl-pyridin-2-ylethynyl)-benzyl ester

- [2-(3-Fluoro-phenylethynyl)-6-methyl-pyridin-4-ylmethyl]-dimethyl-amine
- (3-{2-[2-(3,5-Dichloro-phenyl)-propenyl]-6-methyl-pyridin-3-yloxy}-propyl)-dimethyl-amine
- 2-(3-Fluoro-phenylethynyl)-3-methoxy-6-methyl-pyridine
- (3-{2-[2-(3,5-Dichloro-phenyl)-vinyl]-pyridin-3-yloxy}-propyl)-dimethyl-amine
- (4-Azido-2-hydroxy-5-iodo-phenyl)-{4-[6-(3-fluoro-phenylethynyl)-2-methyl-pyridine-3-carbonyl]-piperazin-1-yl}-methanone
- 4-Azido-N-{3-[2-(3-chloro-phenylethynyl)-6-methyl-pyridin-3-yloxy]-propyl}-2-hydroxy-5-iodo-benzamide
- 4-(2-Pyridin-2-yl-vinyl)-benzoic acid ethyl ester
- (3-{2-[2-(4-Chloro-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-propyl)-dimethyl-amine
- [3-(6-Methyl-pyridin-2-ylethynyl)-phenyl]-methanol
- 6-(3-Fluoro-phenylethynyl)-nicotinic acid tert.-butyl ester
- (3-{2-[2-(3,4-Dichloro-phenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-propyl)-dimethyl-amine
- 2-(1-Bromo-2-phenyl-vinyl)-4-methyl-pyrimidine
- 6-(3-Fluoro-phenylethynyl)-nicotinic acid
- [4-(4-Fluoro-benzoyl)-piperidin-1-yl]-[6-(3-fluoro-phenylethynyl)-pyridin-3-yl]-methanone
- 2-(2-.tert.-Butoxy-3,6-difluoro-phenylethynyl)-6-methyl-pyridine
- 2-Methyl-6-[2-(2,4,5-trifluoro-phenyl)-vinyl]-pyridine
- 2-Methyl-6-[2-(2,3,4-trifluoro-phenyl)-vinyl]-pyridine

- 3-(6-Methyl-pyridin-2-ylethynyl)-phenol
  2-Methyl-6-[2-(3,4,5-trifluoro-phenyl)-vinyl]-pyridine
  2-(3-Methoxy-phenylethynyl)-6-methyl-pyridine
  2-Methyl-6-(2,3,4-trifluoro-phenylethynyl)-pyridine
  and pharmaceutically acceptable salts thereof.
- 10. (3-{2-[2-trans-(3,5-dichlorophenyl)-vinyl]-6-methyl-pyridin-3-yloxy}-propyl)-dimethylamine in free form or in form of a pharmaceutically acceptable salt.
- 11. A pharmaceutical composition comprising as pharmaceutical active ingredient, together with customary pharmaceutical excipients, a compound according to any of claims 6 to 10, in free form or in form of a pharmaceutically acceptable salt.
- 12. A method of treating disorders mediated full or in part by mGluR1 or mGluR5, which method comprises administering to a warm-blooded organism in need of such treatment a therapeutically effective amount of an 2-arylalkenyl-, 2-heteroarylalkenyl-, 2-arylazo- and 2-heteroarylazo- pyridine or a pharmaceutically acceptable salt thereof.

#### INTERNATIONAL SEARCH REPORT

International Application No PCT/EP 98/04266

A. CLASSIFICATION OF SUBJECT MATTER IPC 6 C07D213/65 A611 A61K31/44 C07D213/80 C07D401/12 C07D401/06 According to International Patent Classification (IPC) or to both national classification and IPC 8. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 6 CO7D A61K Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Χ EP 0 334 119 A (BOEHRINGER INGELHEIM 1-3,6-11 PHARMA) 27 September 1989 see page 16; claim 1 X DOWELL R.I.; HALES, N. H., TUCKER H.: 1-3,6-11 "Novel inhibitors of prolyl 4-hydroxylase. Part 4. Pyridine-2-carboxylic acid analogues with alternative 2-substituents" EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol. 28, no. 6, 1993, pages 513-516, XP002087215 see page 514; example 19 Further documents are listed in the continuation of box C. Х Patent family members are listed in annex. Special categories of cited documents; \*T\* later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not considered to be of particular relevance cited to understand the principle or theory underlying the invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to \*L° document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search **0** 7. 01. 99 9 December 1998 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Lauro, P Fax: (+31-70) 340-3016

### INTERNATIONAL SEARCH REPORT

International Application No PCT/EP 98/04266

		PC1/EP 98/04280				
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT						
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.				
X	LAZER E. S. ET AL: "Effect of structure on potency and selectivity in 2,6-disubstituted 4-(2-arylethenyl)phenol lipoxygenase inhibitors" JOURNAL OF MEDICINAL CHEMISTRY, vol. 33, no. 7, 1990, pages 1892-98, XP002087216 see page 1894; example 54	1-3,6-11				
X	BAHNER, C. T. ET AL.: "Di- and tri-methoxystyryl derivatives of heterocyclic nitrogen compounds" ARZNEIM. FORSCH. / DRUG RES., vol. 31, no. 3, 1981, pages 404-6, XP002087217 see page 405; examples 6-8	1-3,6-11				
X	HONMA Y; HANAMOTO K; HASHIYAMA T; SEKINE Y; TAKEDA M; ONO Y: "Antiallergic agents. 3. N-(1H-tetrazol-5-yl)-2-pyridinecarboxamide s" JOURNAL OF MEDICINAL CHEMISTRY, vol. 27, no. 2, 1984, pages 125-128, XP002087218 see example 9	1-3,6-11				
X	MORI M ET AL: "THE NEMATICIDAL ACTIVITY OF ACETYLENE COMPOUNDS" AGRICULTURAL AND BIOLOGICAL CHEMISTRY, vol. 46, no. 1, 1982, pages 309-311, XP000645051 see example 14; table III	1-3,6-10				
X	D. JERCHEL; H. E. HECK: "Kondensation von Methylpyridinen mit Benzaldehyd" JUSTUS LIEBIGS ANN. CHEM., vol. 613, 1958, pages 171-177, XP002087219 see page 174; example III	1-3,6-10				
X	SADAO ARAI ET AL.: "Synthesis and reactions of methylbenzo[c]quinolizinium salts" JOURNAL OF HETEROCYCLIC CHEMISTRY, XP002087220 see example 4	1-3,6-10				
x	B.D. SHAW; E.A. WAGSTAFF: "The nitration of beta-phenylethylpyridines and related compounds"  JOURNAL OF THE CHEMICAL SOCIETY,  XP002087221  * see compounds of formula (II) and (III)*	1-3,6-10				

# INTERNATIONAL SEARCH REPORT International Application No

PCT/EP 98/04266

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT						
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.				
A	WO 97 19049 A (CIBA GEIGY AG ;SANDOZ AG (DE); NOVARTIS ERFINDUNGEN VERWALTUN (AT)) 29 May 1997 see page 1-5	1-3,5-11				
A	WO 97 05109 A (NOVONORDISK AS ;LUNDBECK JANE MARIE (DK); KANSTRUP ANDERS (DK)) 13 February 1997 see page 13-17; claim 1	1-3,5-11				
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International application No. PCT/EP 98/04266

#### INTERNATIONAL SEARCH REPORT

Part Change
Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.:     4,12     because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 4 and 12 are directed to a method for treatment of the human/animal body by therapy, the search has been carried out and based on the alleged effects of the compounds/compositions
Claims Nos.:  Claims Nos.:  because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
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1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

In view of the huge number of documents which disclose the compounds claimed in claims 1-3, 6-11, and which could not all be cited in the search report, the search is to be considered incomplete as far as the claims directed to compounds per se and their pharmaceutical compositions are concerned. The compounds in the form of photoaffinity ligands and radioactive markers have not been searched since no support in the description could be found. Claim 5 has been searched completely.

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No PCT/EP 98/04266

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